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47th CHRISTMAS BIRD COUNT

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Photograph of blue jay by Allan D. Cruickshank

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Edited by Margaret Brooks Hickey

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47th Christmas Bird Count

THE 47th Christmas Bird Count, like its predecessors, serves as an interesting barometer of popular interest in bird study in the United States and Canada. Participation in this activity for the past seven years was approximately as follows:

Year	No. Printed Reports	Total Observers
1940	299	2200
1941	307	2400
1942	250	1620
1943	265	1840
1944	262	2125
1945	288	2300
1946	316	3140

There seems to be little doubt but that the popular interest in bird study suffered during the war and that it has now risen to a peak unmatched in history. However, the figures given in the above table are not entirely comparable, year for year, for duplication of observers in the gross total of participants is bound to occur. This duplication at the same time reflects intensity of interest, so that the general value of the "barometer" still holds.

Total number of birds.—The total number of birds counted or estimated during the count period (December 21 through 29 in 1946) continues to vary unevenly from year to year:

1942	3,570,000
1943	2,555,000
1944	5,490,000
1945	3,136,000
1946	1,928,000

Pintails numbered nearly one-half of the total in 1942, mallards made up about one-third of the total in 1943, and both species (over 3,170,000 individuals) helped create the peak in 1944. The most important variable in the last three years has been the reports of the great Sacramento National Wildlife Refuge in California; these cited 3,024,000 birds in 1944, about 867,500 in 1945, and were not submitted in 1946.

Only two groups reported over 100,000 birds in the present bird count. The Urner Ornithological Club carefully estimated its great starling-blackbird roosts in New Jersey and set a final figure of 355,573 for all species in their region. Wilson, Van den Akker, and Young reported 118,035 (mostly waterfowl) on the Bear River National Wildlife Refuge in Utah.

Variety.—Last year seven regions were found to have 100 or more species and subspecies—California, 3; Florida, 1; Louisiana, 1; South Carolina, 1; New Jersey, 1. This year sixteen regions reached this total. Including their total number of species and subspecies, these were located as follows: 151, Los Angeles, Calif.; 144, Charleston, S. C.; 136, San Luis Potosi, Mexico; 128, Harlingen, Texas; 123, Monterey, Calif.; 117, San Diego, Calif.; 117, St. Augustine, Fla.; 117, Cape May, N. J.; 115, Worcester County, Md.; 109, Pasadena, Calif.; 106, Western Long Island, N. Y.; 106, St. Petersburg, Fla.; 101, Salinas, Calif.; 100, St. Marks, Fla.; 100, Bronx-Westchester Region, N. Y.; 100, Houston, Texas.

In some regions, efforts to demonstrate the local variety of bird life resulted in unsubstantiated reports of two subspecies that cannot reliably be separated in the field. The struggle for variety is occasionally apparent in other ways and undoubtedly detracts from the Christmas Bird Count as a whole.

Rarities and accidental visitors.—The 47th count seems to be characterized by more remarkable rarities than any previous one we have published. A varied thrush in Utah was found on three consecutive Sundays in December and

is probably the first of this species to be recorded from that State (see No. 289). A green-tailed towhee was discovered in western Massachusetts too late (Dec. 31) for representation in the Christmas count, but it was seen by over 100 people in the three weeks that followed (see No. 36). The list of rarities is long, from skuas in Lake Erie to Baltimore orioles in New Jersey, and space unfortunately prevents pointing out all of them.

It is axiomatic that observers who report rarities can gain acceptance of their sight record (1) if they demonstate that they were aware of its status at the time they identified the bird, and (2) if they furnish full details on their observation(s). When initials are appended to a record, some intimation of this first rule is apparent; when neither initials nor the slightest detail is offered, one is regretfully forced to assume that the report is worthless.

Late stragglers.—The extremely mild autumn in the eastern states, described in the last issue of "Audubon Field Notes" as delaying fall migration, actually left many migrants stranded far north of their normal wintering areas. When counts were made in both 1945 and 1946, many changes in numbers were noted. This was particularly true among passerine insect-eating species.

Bluebirds were reported in increased numbers in every State from Massachusetts to Indiana (414 in 1945, 1148 in 1946). Yellow-bellied sapsuckers generally increased in the region from Ontario and New Jersey westward. Flickers were seen in about the same numbers in New England, but jumped from 58 to 329 in New York, New Jersey, and Pennsylvania.

Flycatchers were spectacular. Phoebes showed little change in Florida (96 in 1945, 101 in 1946), some change in Georgia (13 to 24), a notable increase in the Carolinas (48 to 96), and an extraordinary increase in some of the Middle Atlantic States (Pennsylvania, Maryland, Delaware, and Virginia: none to 17). Even a Say's phoebe was well observed in Pennsylvania. Eastern kingbirds, which ordinarily winter southward from southern Mexico, were reported from Maryland, North Carolina, and South Carolina. An Arkansas kingbird was collected in Maryland, and there were sight records of this species from New York and Kansas.

Scattered reports of straggling wood warblers will also be found in the pages that follow. Some of these are not well substantiated, but the collecting of a Cape May warbler in New York by R. S. Palmer must stand as an uncontrovertable landmark in a record-breaking season. This last species normally winters in the Bahamas and West Indies.

Christmas Bird Count Club. — For the 1946 count, the club donated the much-appreciated sum of $200.25.

1. Oahu, T.H. (residential areas in Honolulu, Alewa Heights, Kapalama Heights, Kipapa trail, Tantalus trail, Woodlawn-St. Louis trail, Kalihi Flats, Kaelepulu pond; ponds 17%, tidal flats 1%, pastureland 1%, koa-lehua forest 17%, kukui-guava forest 50%, residential area 14%).—Dec. 29; 6 a.m. to 5 p.m. Partly overcast, occasional showers; temp. 65° to 82° F.; wind S, 1-12 m.p.h. Seventeen observers in 5 parties. Total hours, 24 (on foot); total miles, 150 (20 on foot, 130 by car). Black-crowned night heron, 20; pintail, 3; mallard, 6; blue-winged teal, 2; gallinule, 2; coot, 1200 (est.); Pacific golden plover, 36; ruddy turnstone, 7; wandering tattler, 2; Hawaiian stilt, 36; Chinese dove, 20; barred dove, 63; Japanese tit, 1; English sparrow, 82; ricebird, 44; Kentucky cardinal, 38; Brazilian cardinal, 5; house finch, 7; Chinese thrush, 3; Japanese hill robin, 65; mynah, 70; mockingbird, 2; white-eye, 109; English skylark, 3; Hawaiian owl, 1; elepaio, 77; apapane, 63; amakihi, 44; iiwi, 2; creeper, 1. **Total,** 30 species; about 2014 individuals. — Catherine Delamere, Walter Donaghho, Charles M. Dunn, Francis Evans, Mary Evans, Priscilla Griffey, Grenville Hatch, N. Kilgore, Unoyo Kojima, Bernice M. Kuhns, Gordon Pearsall, Blanche A. Pedley, Hazel Peppin, Larry Richards, Ruth Rockafellow, Euphie G. M. Shields, David Woodside (members and guests Hawaii Audubon Society).

2. Tokyo, Japan (15-mile circle centered at Tamachi railroad station, including all of Tokyo proper and some outskirts; city parks and gardens 55%, Tokyo Bay shore and mudflats 40%, Imperial Palace moat and business district 5%). —Dec. 22. Cloudy and cold with light drizzle in early morning and visibility restricted all day by fog and smoke; temp. around 41°. Three observers working separately in different sections. Total miles, 6½ (on foot); total hours, 10¼. Nomenclature follows "A Hand-list of the Japanese Birds," Tokyo, 1942. Japanese jungle crow, 16; grey starling, 107; Japanese tree sparrow, 505 (partly est.); Japanese hawfinch, 2; Japanese bunting, 7; Japanese meadow bunting, 10; Swinhoe's reed bunting, 5; Japanese skylark, 21; Japanese water pipit, 2; Japanese pied wagtail, 24; eastern grey wagtail, 3; Japanese white-eye, 150 (est.), Japanese great tit, 16; Japanese long-tailed tit, 10; bull-headed shrike, 9; brown-eared bulbul, 408 (partly est.); Japanese bush warbler, 5; Japanese brown thrush, 3; Asiatic sparrow hawk, 2; black-eared kite, 75; night-heron, 35; mallard, 136; eastern spot-billed duck, 407; (green-winged) teal, 452 (partly est.); wigeon, 118; shoveller, 5; mandarin duck, 42; tufted duck, 1; eastern scaup, 458 (partly est.); golden-eye, 82; smew, 1; red-breasted merganser, 1; Japanese cormorant, 916 (one roosting flock est. 900); Chinese little grebe, 10; eastern

turtle-dove, 3; eastern dunlin, 228; sanderling, 9; grey plover, 4; ringed plover, 298; Vega herring gull, 5; black-tailed gull, 3; Kamchatkan black-headed gull, 107; Chinese bamboo pheasant, 20. **Total,** 43 species; about 4721 individuals. (Seen in area during December: Japanese blue magpie, Japanese jay, small Japanese greenfinch, large red-bellied rock thrush, common Indian kingfisher, little egret.) — Nobusuke Taka-Tsukasa, Tatsujiro Owikawa, Robert L. Pyle.

3. Villa Tamuin, San Luis Potosi, Mexico (Villa Tamuin to Taninul, Tamuin Station, and lagunas north and east of the village, no points more than 12 miles apart; coastal plain woodland 35%, wooded rock ridge 20%, weed-grown fields 15%, brushy marsh and ponds 15%, river bank 10%, village streets 5%).—Dec. 28; 12:01 to 2 a.m., 5:30 a.m. to 5:30 p.m. Foggy in early morning, changing to fair; temp. 67° to 88°; little or no wind. Four observers working separately most of the time. Total miles, 89 (48 by car, 41 on foot); total party hours, 29 (5 by car, 24 on foot).Tinamou, 3; pied-billed grebe, 2; Mexican cormorant, 25; water-turkey, 3; great blue heron, 10; Am. egret, 16; snowy egret, 6; Louisiana heron, 16; little blue heron, 24; green heron, 4; black-crowned night heron, 1; Am. bittern, 1; wood ibis, 2; glossy ibis sp., 18; white ibis, 19; black-bellied tree duck, 31; gadwall, 3; baldpate, 3; pintail, 11; green-winged teal, 3; blue-winged teal, 36; shoveller, 2; turkey vulture, 14; black vulture, 102; white-tailed kite, 3; micrastur sp., 2; red-tailed hawk, 5; gray-tailed hawk, 14; Harris's hawk, 4; Mexican goshawk, 2; black hawk, 1; marsh hawk, 11; caracara, 14; pigeon hawk, 1; sparrow hawk, 14; chachalaca, 2; bob-white, 36; Florida gallinule, 1; coot, 57; jacana, 12; killdeer, 29; Wilson's snipe, 22; spotted sandpiper, 2; greater yellowlegs, 2; red-billed pigeon, 28; mourning dove, 16; Mexican ground dove, 42; blue ground dove, 2; Inca dove, 23; white-fronted dove, 14; green parakeet, 265; Aztec parakeet, 4; yellow-headed parrot, 5; squirrel cuckoo, 4; ani, 4; barn owl, 1; horned owl, 2; wood owl, 1; pauraque, 4; Mexican collared swift, 8; curved-winged sabrewing, 1; hummingbird sp., 2; belted kingfisher, 4; Texas kingfisher, 3; least kingfisher, 1; white-billed pileated woodpecker, 3; (golden-fronted) woodpecker, 12; ladder-backed woodpecker, 12; ivory-billed woodhewer, 2; Couch's kingbird, 80; boat-billed flycatcher, 1; Giraud's flycatcher, 6; derby flycatcher, 22; *Myiarchus* sp., 5; phoebe, 16; *Empidonax* sp., 8; vermilion flycatcher, 53; rough-winged swallow, 25; barn swallow, 4; Mexican crow, 30; brown jay, 26; black-crested titmouse, 2; house wren, 7; Berlandier's wren, 3; spotted-breasted wren, 5; white-bellied wren, 1; mockingbird, 5; catbird, 2; Sennett's thrasher, 4; Gray's robin, 5; gnatcatcher, 76; ruby-crowned kinglet, 2; Am. pipit, 126; Sprague's pipit, 1; shrike, 3; white-eyed vireo, 3; blue-headed vireo, 3; black and white warbler, 5; orange-crowned warbler, 2; Nashville warbler, 2; myrtle warbler, 29; black-throated green warbler, 17; Jouy's warbler, 1; yellow-throat, 121; (Mirador) yellow-throat, 4; chat, 2; Wilson's warbler, 18; English sparrow, 4; meadowlark, 6; red-wing, 256; orchard oriole, 2; Alta Mira oriole, 5; black-headed oriole, 11; hooded oriole, 6; Brewer's blackbird, 31; great-tailed grackle, 1200; Sumichrast's blackbird, 34; cowbird, 10; red-eyed cowbird, 5; (summer) tanager, 1; Bonaparte's euphonia, 7; crimson-collared grosbeak, 1; cardinal, 8; indigo bunting, 1; painted bunting, 6; Mexican grassquit, 36; black-headed saltator, 5; Lichtenstein's saltator, 1; seedeater, 85; goldfinch, 125; Mexican goldfinch, 14; Texas sparrow, 14; savannah sparrow, 20; grasshopper sparrow, 1; lark sparrow, 3; Lincoln's sparrow, 8. **Total,** 136 species; 3683 individuals. — David Cutler, Robert and Marcella Newman, Charles R. Shaw.

4. Blenheim (Kent Co.), Ont. (Fargo, Blenheim, Mull, Morpeth, Cedar Springs, Erie Beach, Erieau, and Rondeau Provincial Park; farmland 65%, water 20%, woods 12%, marshes 2%, town 1%).—Dec. 28; 9 a.m. to 5 p.m. Overcast; visibility fair; no snow; temp. 37° at start, 30° at return; wind NW, 4-22 m.p.h.; Lake Erie open, no ice along shore; Rondeau Bay partially frozen, Erieau Harbor open, marshes frozen. Sixteen observers in 5 parties. Total party hours, 37; total party miles, 92 (27 on foot, 65 by car). Great blue heron, 1; golden-eye, 5; Am. merganser, 9; red-breasted merganser, 13; sharp-shinned hawk, 2; red-tailed hawk, 7; Am. rough-legged hawk, 6; bald eagle, 6; marsh hawk, 5; sparrow hawk, 1; pheasant, 3; herring gull, 120; ring-billed gull, 1; Bonaparte's gull, 20; rock dove, 2; mourning dove, 56; screech owl, 4; great horned owl, 4; long-eared owl, 3; hairy woodpecker, 5; downy woodpecker, 24; horned lark, 2; blue jay, 10; crow, 212; black-capped chickadee, 190; white-breasted nuthatch, 9; red-breasted nuthatch, 2; brown creeper, 6; golden-crowned kinglet, 22; starling, 650+; English sparrow, 300+; cardinal, 35; goldfinch, 12; towhee, 2; slate-colored junco, 137; tree sparrow, 37; song sparrow, 11. **Total,** 37 species; about 1934 individuals. — C. M. Anderson, D. A. Arnott, L. J. Bohn, Bob Berry, Dick Blackburn, Hugh Evans, Harold English, W. M. Gray, Geo. McGarvin, D. S. Marshall, Ed. H. Richards, Geo. M. Stirrett, H. B. Wressell, D. Harry Young, Harold Zavitz, Perry Zavitz (members Kent Nature Club).

5. Columbus, Ont. (Oshawa lake shore and 6 miles north; marshland, cedar and hemlock groves, open farmland, and deciduous farm

woodlots).—Dec. 26; 9 a.m. to 4:30 p.m. Clear; moderately cold; about 2 inches snow. Total miles, 16 (on foot). Loon, 1; horned grebe, 2; great blue heron, 2; Canada goose, 17; mallard, 10; black duck, 28; Am. golden-eye, 1; Am. merganser, 11; goshawk, 1; Cooper's hawk, 2; red-tailed hawk, 1; rough-legged hawk, 2; ruffed grouse, 2; bob-white, 11; ring-necked pheasant, 15; herring gull, 450; ring-billed gull, 1; mourning dove, 1; screech owl, 1; great horned owl, 1; snowy owl, 1; long-eared owl, 1; short-eared owl, 1; large owl (sp.?), 1; belted kingfisher, 1; pileated woodpecker, 1; hairy woodpecker, 1; downy woodpecker, 2; horned lark, 60; blue jay, 1; crow, 1; black-capped chickadee, 35; white-breasted nuthatch, 2; red-breasted nuthatch, 3; brown creeper, 3; winter wren, 2; robin, 1; golden-crowned kinglet, 2; northern shrike, 1; starling, 18; English sparrow, 110; meadowlark, 1; red-wing, 2; cardinal, 1; evening grosbeak, 53; purple finch, 4; redpoll, 4; pine siskin, 1; goldfinch, 1; slate-colored junco, 21; tree sparrow, 7; song sparrow, 1; Lapland longspur, 11; snow bunting, 18. **Total,** 53 species; 933 individuals.—Arthur Slyfield and members of Burroughs Field Naturalists' Club.

6. Hamilton, Ont. (Dundas valley west to Ancaster, Hamilton and harbor, Stoney Creek, Burlington, Aldershot, Lake Medad).—Dec. 22; dawn to dark. Fair; temp. 30° to 35° F.; wind SW, 15 m.p.h.; 2 inches snow on ground; marshes frozen, harbor open. Forty-five observers in 22 parties and at 6 separate feeding stations. Total hours, 101; total miles, 21 (on foot). Common loon, 2; Holboell's grebe, 2; horned grebe, 1; mallard, 8; black duck, 44; greater scaup, 118; lesser scaup, 31; Am. golden-eye, 150; buffle-head, 3; old-squaw, 56; Am. scoter, 1; hooded merganser, 3; Am. merganser, 470; red-breasted merganser, 6; goshawk, 1; sharp-shinned hawk, 3; Cooper's hawk, 3; red-tailed hawk, 9; red-shouldered hawk, 2; bald eagle, 1; marsh hawk, 3; sparrow hawk, 6; ruffed grouse, 9; pheasant, 7; coot, 1; glaucous gull, 1; Kumlien's gull, 1; black-backed gull, 45; herring gull, 5400 (est.); ring-billed gull, 10; Bonaparte's gull, 8; mourning dove, 1; screech owl, 4; horned owl, 13; snowy owl, 1; short-eared owl, 1; kingfisher, 3; flicker, 8; hairy woodpecker, 21; downy woodpecker, 62; horned lark, 3; blue jay, 41; crow, 4; black-capped chickadee, 440; white-breasted nuthatch, 61; brown creeper, 14; winter wren, 3; robin, 5; hermit thrush, 1; golden-crowned kinglet, 22; northern shrike, 1; starling, 3420; English sparrow, 1415; red-wing, 1; cardinal, 54; evening grosbeak, 1; purple finch, 9; pine grosbeak, 4; redpoll, 127; pine siskin, 3; goldfinch, 147; slate-colored junco, 760; tree sparrow, 610; white-throated sparrow, 4; swamp sparrow, 3; song sparrow, 33; snow bunting, 320. **Total,** 67 species; approximately 14,025 individuals.—E. W. Bastin, Don, Neil, and Mr. and Mrs. R. D. F. Bourne, J. Butcher, W. Campbell, N. C. Clarke, K. J. Cox, J. Dowell, E. Elstone, R. O. Elstone, R. Finlayson, Mrs. G. Godfrey, Ian Halladay, A. B. Jackson, H. E. Kettle, Mr. and Mrs. L. Laking, M. Lamb, Mrs. F. E. MacLoghlin, G. MacPartlin, J. E. Martin, D. McCallum, G. O. McMillan, E. Malcolm, R. Mills, J. Moule, G. Nelson, G. W. North, Mrs. H. C. Nunn, G. Preston, G. Sackrider, R. Sargeant, E. O. Smith, G. Stewart, L. Stewart, G. Uptegrove, W. Waldhof, W. Walker, M. Watson, Mr. and Mrs. M. R. Watters, J. H. Williams, L. Williams (members and friends Hamilton Nature Club).

7. Kitchener, Ont. (with Kitchener as center 7 groups radiated as follows: northwest 5 miles to vicinity of Erbsville, north 3 miles to Bridgeport, east 4 miles to Breslau, southeast 7 miles to Freeport and Preston, southeast 7 miles to Parkway, Doon, Strasburg, Blair, west 2 miles to Westmount Golf Club; river margin 50%, deciduous woodlots 25%, open fields 15%, swampy bush 7%, cattail marsh 2%, town limits 1%).—Dec. 22; dawn to dusk. Overcast, with intermittent snow flurries, clearing around 11 a.m., overcast again by 3 p.m.; temp. 24° to 32°; wind W, 15-20 m.p.h., decreasing to 1-7 m.p.h. in p.m.; 6 inches snow on ground; ponds frozen, Grand River open in places. Fifteen observers in 7 parties. Total hours afield, 34; total miles, 51 (on foot). Mallard, 14; black duck, 71; Am. golden-eye, 45; Am. merganser, 8; goshawk, 1; Cooper's hawk, 1; ruffed grouse, 5; pheasant, 11; glaucous gull, 1; herring gull, 75; ring-billed gull, 2; mourning dove, 1; screech owl, 2; great horned owl, 2; pileated woodpecker, 1; hairy woodpecker, 5; downy woodpecker, 16; blue jay, 6; crow, 1; black-capped chickadee, 285; white-breasted nuthatch, 9; brown creeper, 14; robin, 1; golden-crowned kinglet, 62; cedar waxwing, 1; starling, 300+; English sparrow, 600+; bronzed grackle, 17 (at feeding station in Waterloo—R.P.); cardinal, 19; purple finch, 22; pine grosbeak, 3; common redpoll, 187; pine siskin, 18; goldfinch, 295; slate-colored junco, 113; tree sparrow, 174; white-throated sparrow, 1; song sparrow, 21; snow bunting, 3. **Total,** 39 species; about 2413 individuals. (On Dec. 23 a Holboell's grebe was picked up on Preston-Hespeler highway and identified by Bergey and Bowman. A Wilson's snipe also seen by same observers near Wellesley.) — F. Bender, W. Bergey, R. Bowman, E. Carter, F. W. R. Dickson, J. Epp, G. W. Knechtel, H. Main, F. H. Montgomery, K. Moon, R. Pickering, J. Power, G. Schaefer, M. Schultz, R. Tilt (Kitchener-Waterloo Field Naturalists Club).

8. London, Ont. (valley of Thames River from London to Delaware, Redman's spruce

swamp, and 3 feeding stations in same area; pasture 5%, deciduous woodland 20%, swamp 20%, mixed wooded river bank 55%).—Dec. 28; 8 a.m. to 4:30 p.m. Overcast; visibility poor; wind NW, 20 m.p.h.; ground covered with snow patches and ice after a night of rain; temperature 42° at 8 a.m., 20° at 5 p.m.; river and small streams open; edges of ponds open. Twenty-eight observers in 12 parties. Total party hours, 54; total party miles, 90 (30 on foot, 60 by car). Great blue heron, 1; golden-eye, 38; Am. merganser, 43; Cooper's hawk, 1; red-tailed hawk, 9; red-shouldered hawk, 2; Am. rough-legged hawk, 1; bald eagle, 4; ring-necked pheasant, 7; herring gull, 35; screech owl, 1; great horned owl, 1; long-eared owl, 2; short-eared owl, 1; flicker, 1; yellow-bellied sapsucker, 1; hairy woodpecker, 5; downy woodpecker, 28; blue jay, 27; crow, 60; black-capped chickadee, 184; tufted titmouse, 1; white-breasted nuthatch, 24; red-breasted nuthatch, 2; brown creeper, 7; golden-crowned kinglet, 27; starling, 182; English sparrow, 275; cardinal, 88; redpoll, 94; goldfinch, 97; slate-colored junco, 249; tree sparrow, 163; song sparrow, 6; snow bunting, 50. **Total,** 35 species; 1717 individuals. (Seen in area recently: marsh hawk, robin, bronzed grackle, mourning dove, Carolina wren, winter wren.)—Rae Brown, Jean Brown, R. G. Cummings, Mrs. Cummings, Johnny and Tommy Cummings, Harold Calvert, Don Coleman, Irene Chapman, Eli Davis, Kay Fetherston, Frank Girling, Mrs. W. G. Girling, Wm. Girling, Mary Harvey, John Harvey, George Harvey, Mrs. I. Johnston, John Kormos, Keith Horton, Alan Loughrey, James Leach, Bessie Marwood, Millar Stewart, Mrs. M. Stewart, Margaret Stevens, Ruth Westcott, Charles Whitelaw (McIlwraith Ornithological Club).

9. Midland, Ont. (Midland waterfront along highway to Penetanguishene for about 3 miles and return; arbor vitae and tamarack swamp 80%, cultivated land 10%, suburban areas 10%). —Dec. 28; 1:30 to 6 p.m. Clear; temp. 49°; no wind; ground covered with about 30 inches of snow, deeply drifted in places; streams frozen; lake frozen, except temporary breaks made by ice-breakers in harbor at Midland. Three observers in 1 party. Total hours, 4½; total miles, 6 (on foot). Herring gull, 12; hairy woodpecker, 2; downy woodpecker, 1; blue jay, 2; black-capped chickadee, 64; brown-capped chickadee, 1; starling, 30 (est.); English sparrow, 25 (est.); evening grosbeak, 24; pine grosbeak, 2; redpoll, 120 (est.); pine siskin, 3; tree sparrow, 4. **Total,** 13 species; about 290 individuals.—Doug Mulligan, Mr. and Mrs. Keith Reynolds.

10. Ottawa, Ont. (same area as in 1945).—Dec. 22; 8 a.m. to 4:30 p.m. Overcast; wind variable NW, 0-20 m.p.h.; temp. 21° to 29°; 5 inches snow on ground; open water in rapids areas. Twenty-three observers in 9 parties. Total hours, 41; total miles, 132 (87 by car, 45 on foot). Golden-eye, 91; Am. merganser, 15; sparrow hawk, 1; ruffed grouse, 1; ring-necked pheasant, 8; rock dove, 220; great horned owl, 1; barred owl, 1; hairy woodpecker, 4; downy woodpecker, 4; crow, 7; black-capped chickadee, 45; brown-headed chickadee, 4; white-breasted nuthatch, 6; brown creeper, 3; robin, 1; cedar waxwing, 12; northern shrike, 1; starling, 2136; English sparrow, 1324; red-wing, 1; evening grosbeak, 17; pine grosbeak, 16; redpoll, 46; pine siskin, 46; slate-colored junco, 1; tree sparrow, 1; snow bunting, 101. **Total,** 28 species; 4114 individuals.—R. M. Anderson, A. E. Bourguignon, A. Breitung, G. Cooch, Capt. and Mrs. A. W. F. Banfield, B. A. Fauvel, R. Frith, Hoyes Lloyd, R. Hawkins, O. H. Hewitt, A. L. Rand, Stanley Rand, C. E. Johnson, Dr. and Mrs. J. W. Groves, D. B. O. Savile, Dr. and Mrs. H. F. Lewis, Betty Lewis, Barnard Lewis, Dr. and Mrs. V. E. F. Solman (Ottawa Field-Naturalists' Club).

11. Pakenham (Lanark Co.), Ont.—Dec. 23; 7:30 a.m. to 1 p.m., 2 to 4 p.m. Clear, except from 9 to 10:30 a.m.; no wind; 6 inches loose snow; streams open; temp. 30° at start, 34° at return. Four observers, 3 together in a.m., separate in p.m. Total miles, 19 (on foot). Ruffed grouse, 8; rock dove, 34; great horned owl, 1; pileated woodpecker, 1; hairy woodpecker, 1; blue jay, 7; black-capped chickadee, 40; white-breasted nuthatch, 7; starling, 2; English sparrow, 92; evening grosbeak, 39; common redpoll, 24; white-winged crossbill, 11; snow bunting, 2. **Total,** 14 species; 269 individuals.—Edna G. Ross, Verna M. Ross, T. W. Ross, Bill McKenzie.

12. Toronto, Ont. (woods, fields, and sections of lake front near Toronto; open farmland 50%, beech-maple-hemlock woods 35%, lake shore 15%).—Dec. 26; 9:30 a.m. to 5 p.m. Clear; temp. 12° F.; wind NW, 19-25 m.p.h.; ground covered with 5 inches crusted snow, Four observers in 1 party. Total hours, 7½; total miles, 50 (45 by car, 5 on foot). Pintail, 1; greater scaup, 250; Am. golden-eye, 23; buffle-head, 9; old-squaw, 2; Am. merganser, 2; red-shouldered hawk, 1; unidentified buteo, 2; herring gull, 75; great black-backed gull, 2; downy woodpecker, 1; blue jay, 1; black-capped chickadee, 150; white-breasted nuthatch, 5; red-breasted nuthatch, 5; brown creeper, 1; golden-crowned kinglet, 1; starling, 15; English sparrow, 12; pine grosbeak, 1; redpoll, 4; pine siskin, 200; white-winged crossbill, 5; junco, 23; tree sparrow, 2. **Total,** 24 species; about 793 individuals.—John MacArthur, Jr., Robert MacArthur, J. W. MacArthur, Donald MacDonald.

13. Toronto, Ont. (Swansea, Humber River valley east of river from St. Clair Ave. to Toronto lake shore; deciduous groves 60%, open fields 15%, cattail marshes 15%, river and lake sand flats 10%).—Dec 27; 9 a.m. to 4:15 p.m. In a.m., overcast, no wind, good visibility; in p.m., snow beginning at noon, moderate to fresh winds, visibility progressively worse; temp. 14° to 27°; about 4 inches snow on ground; river ½ frozen. Two observers. Total hours, 6½; total miles, 17 (on foot). Mallard, 300 (est.); black duck, 500 (est.); buffle-head, 10; old-squaw, 1; pheasant, 2; herring gull, 23; great horned owl, 1; barred owl, 1; belted kingfisher, 1; hairy woodpecker, 2; downy woodpecker, 9; blue jay, 5; crow, 1; black-capped chickadee, 16; white-breasted nuthatch, 7; brown creeper, 4; starling, 27; English sparrow, 15; cardinal, 7; goldfinch, 25; slate-colored junco, 12; tree sparrow, 78 (est.); song sparrow, 35. **Total,** 23 species; about 1082 individuals.—J. E. Tovell, J. E. Humphries.

14. West Elgin (Aldboro and Dunwich Twps.), Ont. (area within 7-mile radius of West Lorne; deciduous woodlots 25%, pine woodlots 5%, open territory 35%, river sidehills 10%, lake front 25%).—Dec. 26; 8:30 a.m. to 5 p.m. Partly overcast to clear; temp. 24° at start, 18° at return; 4 inches snow; wind NW, 23 diminishing to 18 m.p.h.; river frozen except rapids, Lake Erie clear of ice. Eighteen observers in 5 parties. Total hours, 21 (20 on foot, 1 by car); total miles, 34 (22 on foot, 12 by car). Am. golden-eye, 25; herring gull, 1; marsh hawk, 1; red-tailed hawk, 2; red-shouldered hawk, 2; Am. rough-legged hawk, 2; sparrow hawk, 1; bob-white, 7; ring-necked pheasant, 2; ruffed grouse, 2; rock dove, 46; mourning dove, 15; short-eared owl, 1; flicker, 1; downy woodpecker, 24; hairy woodpecker, 3; blue jay, 6; crow, 3; black-capped chickadee, 179; white-breasted nuthatch, 15; cedar waxwing, 5; starling, 150 (est.); English sparrow, 150 (est.); cowbird, 6; cardinal, 20; purple finch, 1; common redpoll, 9; goldfinch, 37; slate-colored junco, 149; tree sparrow, 100; song sparrow, 2. **Total,** 31 species; about 967 individuals. (Dead immature bald eagle found in tree along Lake Erie by one of the parties; 1 male myrtle warbler observed at close range in barberry bushes at V. E. Lemon's home on Dec. 27—V.E.L., R.E.L., H.L.L.)—A. C. Anderson, C. Brown, M. Deighton, Carolyn Gray, Mr. and Mrs. H. L. Lancaster, Mr. and Mrs. V. E. Lemon, R. E. Lemon, Mrs. J. A. McKillop, Edina Newlands, E. Pfiefer, W. Sheeler, Ella Sifton, A. W. Smith, A. C. Steele, Mr. and Mrs. G. Vogan (West Elgin Nature Club).

15. Willowdale, Ont. (10 square miles of North York Township; fields 50%, river valleys 40%, golf course 10%).—Dec. 22; 8 a.m. to 5 p.m. Partly cloudy; 6 inches snow; wind NW, 25-38 m.p.h.; temp. 26° at start, 28° at return. Three observers in 1 party. Total hours afield, 9 (by foot); total party miles, 25 (by foot). Great blue heron, 1 (beside a patch of open river—D.B.); sparrow hawk, 1; ring-necked pheasant, 35; herring gull, 5; rock dove, 23; screech owl, 1; horned owl, 3 (1 of which was an Arctic horned owl, observed roosting and flying 25 ft. overhead); long-eared owl, 1; belted kingfisher, 1; hairy woodpecker, 1; downy woodpecker, 7; horned lark, 2; black-capped chickadee, 55; brown creeper, 1; starling, 23; English sparrow, 7; redpoll, 6; goldfinch, 8; slate-colored junco, 34; tree sparrow, 36; song sparrow, 1. **Total,** 21 species; 252 individuals.—R. F. James, Norman Duncan Martin, David Bates.

16. Woodstock-Ingersoll, Ont. (Woodstock south to Currie, circling large pond with surrounding swamp, woodland, and marsh; Ingersoll west to Five Points; east to Centreville; woodland surrounding Folden; cedar wood and swamp 34%, deciduous woods 20%, scattered mixed woodland 8%, open field 32%, marsh 4%, cut-over woodland with scrub growth 1%, suburbs 1%).—Dec. 22; 8:45 a.m. to 4:20 p.m. Intermittent snow in a.m. to heavy overcast by 11 a.m. with almost continual snow remainder of day; temp. 28°; wind NW, 15-18 m.p.h.; 8 inches fresh wet snow. Eleven observers in 5 parties. Total hours, 29; total miles, 39½ (on foot). Great blue heron, 1; red-tailed hawk, 1; Am. rough-legged hawk, 2; ruffed grouse, 3; herring gull, 3; great horned owl, 2; snowy owl, 1; short-eared owl, 1; hairy woodpecker, 2; downy woodpecker, 17; horned lark, 7; blue jay, 12; black-capped chickadee, 236; white-breasted nuthatch, 6; brown creeper, 2; golden-crowned kinglet, 22; starling, 847; English sparrow, 144; cardinal, 11; redpoll, 102; pine siskin, 300 (est. in 2 flocks); goldfinch, 72; slate-colored junco, 4; tree sparrow, 81; song sparrow, 1. **Total,** 25 species; approximately 1880 individuals.—D. Bucknell, R. Hulse, D. Cole, D. MacDiarmid, G. L. Nutt, T. Pittock, G. Scott, H. A. Sivyer, D. Zufelt, L. Zufelt, H. Milnes (Woodstock Naturalist Society).

17. Hudson Heights, Que. (same area as in last 2 years; mixed evergreen and deciduous woods 25%, second-growth and brush 20%, open farmland 20%, golf course 10%, village and gardens 25%).—Dec. 29; 7:30 a.m. to 4:30 p.m. Dull, light snow from 10:30 a.m. to 2 p.m., then sleet and heavy snow; wind NE to ENE, 5-30 m.p.h.; temp. 6° to 10° F.; bar. 29.90 to 29.35; 15-20 inches snow on ground with heavy drifts; all water frozen, except fast-running streams. Twenty-five observers in 9 parties. Total hours,

34½ (27½ on skis, 7 on foot); total miles, 39½ (30 on skis, 9½ on foot). Screech owl, 1 (brown phase—E.D.C.); hairy woodpecker, 4; blue jay, 47; black-capped chickadee, 96; white-breasted nuthatch, 7; red-breasted nuthatch, 8; starling, 35; English sparrow, 70; purple finch, 25; pine grosbeak, 2; common redpoll, 49 (3 flocks); hoary redpoll, 1 (pure white under tail-coverts clearly seen—G.G.O.); tree sparrow, 3. **Total,** 13 species; 348 individuals. (Seen in area during count period: evening grosbeak, 7.)—Audrey Bryan, Amy and Marg. Clarke, Eunice and Ed. Croll, Ian Fraser, Ryan Heeney, Lilian and Bruce Lancey, John Legate, Althea Macaulay, Bobby McCance, Violet and Dunbar Mullan, Mary and John Mullan, Cecil Nelson, Kate and Geof. Ommanney, Betty Puxley, Joan Reynolds, Drucilla and George Riley, Orville Shaw, Mac. Yuile.

18. Montreal, Que. (Mount Royal, Cote St. Luc Woods, La Salle Woods, King Edward Woods, Brosseau Woods, St. Lambert, Verdun, Heron Island, south shore of St. Lawrence River from Caughnawaga to St. Lambert, Cartierville, and Back River).—Dec. 22. Cloudy and mild with scattered snow flurries; wind WSW, 16-20 m.p.h.; temp. 22.7° to 33.5°; 9 inches snow in open country. Twenty-one observers in 9 parties. Total miles, 101 (37½ on foot, 7 on snowshoes, 7 by boat, 50 by car); total hours, 50½. Mallard, 1; black duck, 122; scaup, 3; Am. golden-eye, 85; Am. merganser, 8; red-breasted merganser, 48; Am. rough-legged hawk, 1; ruffed grouse, 2; ring-necked pheasant, 40; great black-backed gull, 53; herring gull, 359; great horned owl, 2; snowy owl, 1; hairy woodpecker, 3; downy woodpecker, 7; crow, 4; black-capped chickadee, 101; white-breasted nuthatch, 2; red-breasted nuthatch, 1; brown creeper, 1; cedar waxwing, 55; starling, 888; English sparrow, 178; cowbird, 1; purple finch, 5; pine grosbeak, 9; common redpoll, 174; snow bunting, 110. **Total,** 28 species; about 2264 individuals. (Seen on Dec. 19: song sparrow; Dec. 21 and 23: duck hawk, catbird; Dec. 26: flicker.) The catbird and cowbird, unusual records, have been regular visitors for several weeks at a feeding station in St. Lambert.—P. Bard, Miss M. E. Bower, J. A. Decarie, C. Frankton, J. D. Fry, J. B. Gollop, Miss G. E. Hibbard, H. A. C. Jackson, A. R. Lepingwell, Rev. Bro. Matthias, G. H. Montgomery, Jr., L. Philippe, W. H. Rawlings, J. A. Rolland, D. Ryan, Miss M. Seath, E. Skinner, C. H. Sullivan, L. M. Terrill, Mrs. L. M. Terrill, A. Wellwood (The Province of Quebec Society for the Protection of Birds).

19. Quebec, Que. (same area as in 1945, except Levis not covered at all; town suburbs 17%, fields 11%, coniferous forests 14%, deciduous woods 6%, mixed woodlands 47%, shores 5%).—Dec. 23; 7:35 a.m. to 4:30 p.m. Partly cloudy until noon, then clear; temp. 6° to 23°; wind W, 3-10 m.p.h.; 13-20 inches snow on ground; small rivers not completely frozen, moving ice on St. Lawrence River. Four observers in 4 parties. Total hours, 28 (on foot); total miles, 30 (on foot). Ruffed grouse, 7; hairy woodpecker, 4; downy woodpecker, 1; blue jay, 5; crow, 5; black-capped chickadee, 50; Acadian chickadee, 1 (L.-A.L.); starling, 25; English sparrow, 72; pine grosbeak, 33; common redpoll, 500 (est.); snow bunting, 277 (est.). **Total,** 12 species; about 980 individuals. (Seen in area Dec. 24: evening grosbeak, 12.)—Mrs. G. Langelier, Louis-A. Lord, Louis Lemieux, Raymond Cayouette (La Société Zoologique de Québec).

20. Yorkton, Sask. (area 15 miles in diameter with Yorkton as center).—Dec. 26; 9:30 a.m. to 4:30 p.m. Dull, stormy day; biting SE wind, 20 or more m.p.h.; temp. -10° at start, -8° at noon, -12° at finish; very poor visibility due to near-blizzard conditions; 12 inches of snow. Nine observers in 7 groups. Total party hours afield, 9 (5 by car, 4 on foot); total party miles, 38 (34 by car, 4 on foot). Goshawk, 1; hairy woodpecker, 3; downy woodpecker, 2; Canada jay, 1; blue jay, 1; magpie, 1; black-capped chickadee, 7; white-breasted nuthatch, 2; bohemian waxwing, 9; English sparrow, 112 (est.); pine grosbeak, 5; snow bunting, 66 (est.). **Total,** 12 species; approximately 210 individuals. (Dec. 24: starling, 2.)—Jim Allen, Vernon S. Barnes, J. Neil Black, Jack Brownlee, W. A. Brownlee, J. R. Foreman, C. Stuart Houston, F. Langstaff, Jim Smith (members Yorkton Natural History Society).

21. Bar Harbor, Maine (Mount Desert Island, Acadia National Park).—Dec. 29. Overcast; temp. 10° at start, 20° at end; wind NE; intermittent snow showers throughout day; lakes, sheltered bays, streams frozen. Eleven observers in 7 groups. Total hours, 32 (15 on foot, 17 by car); total miles, 134 (18 on foot, 116 by car). Common loon, 2; horned grebe, 2; European cormorant, 13; black duck, 36; greater scaup, 6; Am. golden-eye, 237; buffle-head, 280; old-squaw, 161; Am. eider, 552; white-winged scoter, 11; Am. scoter, 1; hooded merganser, 1; red-breasted merganser, 18; bald eagle, 5; ruffed grouse, 6; great black-backed gull, 5; herring gull, 380; rock dove, 13; hairy woodpecker, 6; downy woodpecker, 2; raven, 2; crow, 47; black-capped chickadee, 69; Acadian chickadee, 2; red-breasted nuthatch, 2; brown creeper, 1; golden-crowned kinglet, 2; northern shrike, 2; starling, 34; English sparrow, 8; rusty blackbird, 1 (observed at feeding station at 6 ft.—F.A., Jr.); pine grosbeak, 8; common redpoll, 6; pine siskin, 25; slate-colored junco, 12; tree sparrow, 1.

Total, 36 species; about 1959 individuals. (Blue jays and grackles seen day after count.)—Franklin Anthony, Jr., Paul Favour, Jr., Allen Gross, Mrs. Alton Gross, Don McPheters, Vernon Lunt, Maurice Sullivan (Mt. Desert Island Bird Club), Annie Erickson, Barbara Tinkham, Mrs. Betty Dunham, Richard Dunham, Jr. (Middleboro, Mass.).

22. Auburn, Maine (area north of Auburn; cut-over woodland 65%, swamp 10%, coniferous woodand 10%, pasture 10%, river 5%).—Dec. 26. Increasing cloudiness in p.m.; 12 inches snow; temp. 20° to 35°; wind SW, about 10 m.p.h. Two observers. Total hours, 7; total miles, 5-6 (on foot). Am. merganser, 1; ring-necked pheasant, 2; herring gull, 27; hairy woodpecker, 4; downy woodpecker, 3; blue jay, 6; crow, 1; black-capped chickadee, 93; white-breasted nuthatch, 2; red-breasted nuthatch, 2; brown creeper, 2; northern shrike, 1; starling, 2; English sparrow, 5; evening grosbeak, 175; pine grosbeak, 35; pine siskin, 5; goldfinch, 9; crossbill (?), 1; slate-colored junco, 6; tree sparrow, 7; song sparrow, 2; snow bunting, 13. **Total,** 23 species; 404 individuals.—James Sawyer, Minot Morse, Jr.

23. Bennington, Vt. (hills and fields northwest of village and along Walloomsac River, 4 feeding stations in village; open farmland 90%, village suburbs 10%).—Dec. 29; dawn to dusk. Low-lying clouds, with sleet from 1 to 3 p.m.; temp. 21° to 34°; ground covered with 4-6 inches heavily crusted snow; wind SE, 20-25 m.p.h. Seven observers in 3 parties. Sparrow hawk, 1; downy woodpecker, 8; blue jay, 7; crow, 4; black-capped chickadee, 9; white-breasted nuthatch, 8; brown creeper, 1; starling, 150+; English sparrow, 175+; evening grosbeak, 21; pine siskin, 12; goldfinch, 4; slate-colored junco, 1; tree sparrow, 33; white-throated sparrow, 1 (at feeding station). **Total,** 15 species; about 435 individuals.—Dr. and Mrs. Lucretius H. Ross, Mrs. Margery Ludlow, Howard Nash, Mr. and Mrs. R. R. Smith, Mrs. Stella Higgins.

24. Wells River, Vt. (north, south, and west of Wells River, covering portions of the Connecticut and Wells River valleys; some variation from earlier years because of increasing difficulty with hurricane debris on part of old route; open farmland 30%, town streets 5%, woodland 65%).—Dec. 24; 9:30 a.m. to 5 p.m. Clear, except for partially overcast sky from 2 to 3 p.m.; temp. 37° at start, 32° at return; wind SW, 5 m.p.h. at start, 10-15 m.p.h. at noon, 5 m.p.h. at end; 5-8 inches snow according to altitude (400 to 1200 ft.); rivers mostly open. One observer on foot. Total hours, 7½; total miles, 10. Am. golden-eye, 8; Am. merganser, 5; ruffed grouse, 4; pileated woodpecker, 2; downy woodpecker, 1; crow, 2; black-capped chickadee, 103 (15 flocks); white-breasted nuthatch, 1; red-breasted nuthatch, 3; brown creeper, 2; robin, 1; golden-crowned kinglet, 3; starling, 5; common redpoll, 17; white-winged crossbill, 6; tree sparrow, 22 (2 flocks). **Total,** 16 species; 185 individuals. (Seen Dec. 29: pine grosbeak, 6.)—Wendell P. Smith.

25. Belmont and Fresh Pond (Cambridge), Mass. (deciduous woodland 30%, open meadow 20%, ponds 20%, evergreen woodland 15%, residential 15%).—Dec. 28; 7:15 a.m. to 4:30 p.m. Moderate to light snow; temp. 28° to 8°; wind NE, 10-20 m.p.h.; 5 inches snow on ground; Fresh Pond open, small ponds frozen. Sixteen observers alone or in pairs. Total hours, 29; total miles, 27 (on foot). Mallard, 5; black duck, 46; Am. golden-eye, 3; Am. merganser, 32; sharp-shinned hawk, 1; red-tailed hawk, 1; sparrow hawk, 2; pheasant, 13; coot, 3; black-backed gull, 2; herring gull, 463; barred (?) owl, 1; flicker, 10; hairy woodpecker, 4; downy woodpecker, 8; blue jay, 34; crow, 20; black-capped chickadee, 66; white-breasted nuthatch, 9; red-breasted nuthatch, 5; brown creeper, 1; golden-crowned kinglet, 2; starling, 231; English sparrow, 93; common redpoll, 6; junco, 68; tree sparrow, 25; white-throated sparrow, 7; fox sparrow, 1; song sparrow, 36. **Total,** 30 species; 1198 individuals. (Also seen during the week: cedar waxwing, 25; evening grosbeak, 3; purple finch, 3; goldfinch, 3.)—Elisha Atkins, Mr. and Mrs. Harold I. Brown, Mrs. Francis Davis, Mrs. George A. Drew, Mr. and Mrs. Hervey B. Elkins, Kimball C. Elkins, Mrs. Hugh Ferguson, Martin Karplus, Brina Kessel, Austen F. Riggs, II, Chandler S. Robbins, Mr. and Mrs. Samuel D. Robbins, Wendell Taber (Belmont Bird Club and guests).

26. Cape Ann, Mass. (Beverly, Manchester, Gloucester, Rockport).—Dec. 29; dawn to sunset. Overcast with light snow and sleet, turning to rain in p.m.; poor visibility throughout day; wind NE to E, 5-30 m.p.h.; 6 inches crusted snow on ground; all marshes and ponds frozen. Eight observers in 3 parties. Total party hours afield, 26; total party miles, 143 (128 by car, 15 on foot). Common loon, 25; red-throated loon, 33; Holboell's grebe, 5; horned grebe, 10; gannet, 20; European cormorant, 154; Canada goose, 7; black duck, 40; greater scaup, 1; Am. golden-eye, 503; buffle-head, 32; old-squaw, 29; Am. eider, 28; white-winged scoter, 82; surf scoter, 18; Am. scoter, 12; red-breasted merganser, 117; sharp-shinned hawk, 1; red-shouldered hawk, 1; rough-legged hawk, 1; marsh hawk, 2; purple sandpiper, 19; glaucous gull, 1; great black-backed gull, 575; herring gull, 1325; kittiwake, 5; black guillemot, 1; rock

dove, 30; screech owl, 1; great horned owl, 1; belted kingfisher, 1; flicker, 4; downy woodpecker, 4; blue jay, 18; crow, 54; black-capped chickadee, 57; white-breasted nuthatch, 2; red-breasted nuthatch, 2; brown creeper, 2; golden-crowned kinglet, 5; cedar waxwing, 1; northern shrike, 1; starling, 495; myrtle warbler, 424; English sparrow, 32; evening grosbeak, 25; purple finch, 17; pine siskin, 8; goldfinch, 22; slate-colored junco, 32; tree sparrow, 4; white-throated sparrow, 1; song sparrow, 5. **Total,** 53 species; about 4295 individuals.—Wallace Bailey, Frances Burnett, S. A. Eliot, Jr., Stuart K. Harris, Martin Karplus, Carroll N. Peacor, Oscar Root, Dorothy Snyder.

27. Cape Cod, Mass. (parts of Harwich, Brewster, Chatham, Orleans, Eastham; same territory since 1931).—Dec. 22; dawn to dark. Overcast at start, clearing at 9 a.m.; temp. 39° to 44°; strong SW to NW wind, after deluge of rain day previously. High counts of many birds and long list of "southern" species reflect one of mildest Decembers in history. Seventeen observers in 4 parties over well-known routes. Total hours, 36; total miles, 282 (233 by car, 49 on foot). Loon, 14; red-throated loon, 1; Holboell's grebe, 1; horned grebe, 11; gannet, 23; great blue heron, 49; Canada goose, 2100 (est.); brant, 17; greater snow goose, 2; black duck, 1550 (est.); green-winged teal, 3; ring-necked duck, 1; greater scaup, 11 (should have been several hundred); lesser scaup, 200 (est.); golden-eye, 950 (est.); buffle-head, 105; old-squaw, 112; eider, 275; white-winged scoter, 130; surf scoter, 17; Am. scoter, 8; ruddy duck, 21; hooded merganser, 11; Am. merganser, 18; red-breasted merganser, 19; sharp-shinned hawk, 1; red-tailed hawk, 2; rough-legged hawk, 3; golden eagle, 1 (possibly same bird in same territory 3 years running); bald eagle, 3; marsh hawk, 1; sparrow hawk, 3; ruffed grouse, 1; bob-white, 7; Virginia rail, 2; yellow rail, 1 (flushed at feet of Emery, Griscom, Mason, while beating fresh-water meadow in Brewster; every character seen with naked eye; flew about 30 ft.; latest record for State); coot, 6; lesser yellow-legs, 3 [no details—Ed.]; red-backed sandpiper, 67; sanderling, 30; glaucous gull, 1; Iceland gull, 3; Kumlien's gull, 1 (ad.); great black-backed gull, 1550 (unprecedented count); herring gull, 16,500 (est.); ring-billed gull, 38; rock dove, 2; mourning dove, 4; snowy owl, 1; kingfisher, 2; flicker, 26; downy woodpecker, 3; horned lark, 180; blue jay, 5; crow, 170; black-capped chickadee, 145; red-breasted nuthatch, 3; brown creeper, 7; long-billed marsh wren, 1; catbird, 1; robin, 25; hermit thrush, 2; bluebird, 4; golden-crowned kinglet, 66; ruby-crowned kinglet, 2; cedar waxwing, 38; starling, 575; myrtle warbler, 400 (est.); pine warbler, 1 [no details—Ed.]; western palm warbler, 14; English sparrow, 2; meadow-lark, 13; red-wing, 1; purple finch, 6; pine siskin, 31; goldfinch, 120; Ipswich sparrow, 4; junco, 25; tree sparrow, 19; white-throated sparrow, 11; swamp sparrow, 5; song sparrow, 23; snow bunting, 60. **Total,** 83 species; about 25,870 individuals. — Wallace Bailey, Richard Bowen, Henry Bunting, Frances and Kimball Elkins, Mr. and Mrs. Maurice Emery, Ludlow Griscom, Stuart K. Harris, Norman P. Hill, Martin Karplus, Russell Mason, Rosario Mazzeo, Allen Morgan, Henry Parker, Austen Riggs, Dorothy Snyder.

28. Cohasset and North Scituate, Mass.—Dec. 25; 8 a.m. to sunset. Partly cloudy; ground bare; wind NW, light to moderate; temp. 38° at start, 38° at return. Total miles, about 16 (6 on foot, 10 by car). Two observers together. Red-throated loon, 1 (L.B.F.); European cormorant, 13; black duck, 6; red-breasted merganser, 2; Cooper's hawk, 1 (W.M.T.); red-shouldered hawk, 1; purple sandpiper, 20; great black-backed gull, 4; herring gull, 70; blue jay, 2; crow, 11; black-capped chickadee, 14; brown creeper, 1; cedar waxwing, 7; starling, 700 (est. flock); myrtle warbler, 1; English sparrow, 2; redpoll, 3; goldfinch, 4; tree sparrow, 1; song sparrow, 1. **Total,** 21 species; about 865 individuals. Lowest number of species from this station in 25 years. Few individuals.—Laurence B. Fletcher, Winsor M. Tyler.

Great Barrington, Mass. (central and west side of town, south through Sheffield to Ashley Falls and west to include a section of South Egremont; residential area 10%, hemlock and pine woods 10%, hedges and open country 80%).—Dec. 29: 8:15 a.m. to 3:30 p.m. Overcast; exposed places bare, elsewhere 1-4 inches icy snow; ⅛-¼ inch ice coated all vegetation; ice storm began again at 11 a.m., turning to freezing rain at 1:30 p.m.; temp. 22° at start, 30° at return; slight E to SE wind; streams frozen except where current was strong. Eleven observers; one party of 2 covering area in car and on foot, the others keeping close check at feeders. Total party hours, 24 (4 on foot); total miles, 5 (on foot). Black duck, 6; Am. merganser, 6; ruffed grouse, 2; owl, 1 (seen being tormented by crows; too far away to ascertain whether it was a barred or great horned); kingfisher, 1; pileated woodpecker, 1; hairy woodpecker, 4; downy woodpecker, 17; horned lark, 12; blue jay, 6; crow, 17; black-capped chickadee, 116; white-breasted nuthatch, 16; red-breasted nuthatch, 2; brown creeper, 1; robin, 8; golden-crowned kinglet, 7; starling, 55; English sparrow, 25; evening grosbeak, 30; purple finch, 2; redpoll, 57; goldfinch, 5; red crossbill, 5; slate-colored junco, 9; tree sparrow, 97; snow bunting, 14. **Total,** 27 species; 522 individuals. (Seen in area Dec. 24: flicker, 1 —E.V.H.)—Jessie Buck, Mrs. A. P. Culver, John M. Francis, Daniel Gleize, Mrs. Adrian C. Hinds,

Mrs. John B. Hull, Jr., Mrs. R. J. Longdyke, Mr. and Mrs. William B. Nisbet, Jr., Eugene H. Varney, Mrs. Donald Worthington (Hoffmann Bird Club).

30. Holyoke, Mass. (same area and localities as in past years; Connecticut River and adjacent fields 30%, town suburbs 30%, deciduous woods 20%, evergreen woods 10%, airport 5%, small streams 5%).—Dec. 23; 7 a.m. to 4 p.m. Clear; 2 inches snow; ponds frozen, Conn. River open; wind NNW, 8-12 m.p.h.; temp. 32° at start, 36° at return. Three observers, 2 of them watching feeding shelf during day, and 1 afield. Total miles, 40 (30 by car, 10 on foot). Black duck, 83; Am. merganser, 4; sparrow hawk, 1; herring gull, 78; ring-billed gull, 6 (yellowish legs, smaller size, and ringed bills adequately noted—A.M.B.); hairy woodpecker, 1; downy woodpecker, 5; northern horned lark, 48; blue jay, 10; crow, 19; black-capped chickadee, 41; white-breasted nuthatch, 3; brown creeper, 1; golden-crowned kinglet, 17; starling, 31; English sparrow, 28; redpoll, 158; goldfinch, 2; slate-colored junco, 18; tree sparrow, 48; song sparrow, 6. **Total,** 21 species; 608 individuals.—Aaron C. Bagg, Aaron M. Bagg, Helen M. Bagg.

31. Jamaica Plain, Mass. (area bounded by and including Arnold Arboretum, Sargent's Estate in Brookline, and Jamaica, Ward's, and Leverett's Ponds; all public park area consisting of 15% small ponds, 30% town suburbs, 20% hemlock woodland, 30% deciduous woodland, and 5% field).—Dec. 23; 9 a.m. to 4 p.m. Fair to partly cloudy; wind SW, 8-12 m.p.h.; temp. 30° to 42°; all ponds frozen except Jamaica. Twelve observers in 1 party. Total hours, 7 (on foot); total miles, 10. Mallard, 10; black duck, 439; buffle-head, 1; hooded merganser, 7; Am. merganser, 51; sparrow hawk, 2; ring-necked pheasant, 1; herring gull, 312; flicker, 4; downy woodpecker, 1; blue jay, 14; crow, 22; black-capped chickadee, 10; white-breasted nuthatch, 1; red-breasted nuthatch, 10; cedar waxwing, 22; starling, 278; English sparrow, 24; purple finch, 11; pine siskin, 4; goldfinch, 27; slate-colored junco, 59; song sparrow, 4. **Total,** 23 species; 1314 individuals. (Seen in area during count period: golden-crowned kinglet, 5; sharp-shinned hawk, 1; robin, 1; hairy woodpecker, 1.)—Ralph Anderson, Ruth Anderson, John Corbett, Thomas Griffin, Alfred Hughes, Kenneth Hughes, Robert Maguire, Francis Murphy, Alfred Oberlander, Joseph O'Neill, Carl Selmer, Miriam E. Dickey, leader (Children's Museum Bird Club).

32. Lee, Mass. (vicinity of Laurel Lake and feeders in various sections of town).—Dec. 29; 7:30 a.m. to 5 p.m. Cloudy; traces of snow followed by light sleet and rain; temp. 20° to 32°; light E wind; 2-4 inches snow with icy crust; vegetation ice covered; all still water frozen. Ten observers; one on foot, the rest at feeding stations. Total hours, 50; total miles, 1 (on foot). Downy woodpecker, 1; blue jay, 8; crow, 1; black-capped chickadee, 23; white-breasted nuthatch, 9; starling, 37; English sparrow, 12; pine grosbeak, 3; slate-colored junco, 7; tree sparrow, 83. **Total,** 10 species; 184 individuals.—Mr. and Mrs. F. H. Carter, Mrs. Alex Faxon, Mrs. Harry Keating, Mrs. Thomas Lillis, Thomas Neals, Mrs. C. E. Rinsma, Mr. and Mrs. Leighton Van Trump, John Waddock (Hoffmann Bird Club).

33. Lenox, Mass. (confined to 1 square mile comprising the Pleasant Valley Sanctuary; woods 70%, open country 30%).—Dec. 29; 8 a.m. to 4:30 p.m. Overcast; light rain and sleet; temp. 18° at start, 29° at finish; 3-5 inches snow with icy crust; all vegetation ice covered; still water frozen. Two observers together. Total miles, 8 (on foot). Hairy woodpecker, 1; black-capped chickadee, 24+; golden-crowned kinglet, 10+; blue jay, 2; white-breasted nuthatch, 2; pine grosbeak, 3. **Total,** 6 species; about 42 individuals.—Robert Crane, Alvah W. Sanborn (Pleasant Valley Sanctuary).

34. Moose Hill Bird Sanctuary, Sharon, Mass. (the 200 acres of sanctuary grounds).—Dec. 25; 7 a.m. to 4 p.m. Partly overcast; temp. 33° to 40°; ground bare. Three observers. Sharp-shinned hawk, 2; red-shouldered hawk, 1; ruffed grouse, 4; mourning dove, 8; flicker, 1; hairy woodpecker, 4; downy woodpecker, 7; blue jay, 4; crow, 10; chickadee, 75; white-breasted nuthatch, 6; red-breasted nuthatch, 2; brown creeper, 1; golden-crowned kinglet, 1; English sparrow, 11; evening grosbeak, 3; purple finch, 40; goldfinch, 65; slate-colored junco, 100; tree sparrow, 50; white-throated sparrow, 12. **Total,** 21 species; 407 individuals.—Mr. and Mrs. W. A. Taylor, Fred Cushing.

35. Newburyport, Mass. (Plum Island to West Newbury, south to Topsfield and Ipswich).—Dec. 29; dawn to 4:30 p.m. Overcast with light snow, sleet, and rain in p.m.; poor visibility throughout day; wind NE to E, 5-20 m.p.h.; 6 inches crusted snow on ground; all marshes and ponds frozen; temp. 10° to 32°. Twenty-four observers in 9 parties. Total party hours afield, 56; total party miles, 288 (247 by car, 41 on foot). Common loon, 8; red-throated loon, 3; horned grebe, 2; gannet, 1; European cormorant, 4; Canada goose, 5; mallard, 1; black duck, 2356; greater scaup, 420; lesser scaup, 1; Am. golden-eye, 1472; buffle-head, 3; old-squaw, 412; white-winged scoter, 408; Am. merganser, 74; red-breasted merganser, 78; rough-legged hawk, 2; bald eagle, 3; marsh hawk, 1; sparrow

hawk, 1; ruffed grouse, 4; Iceland gull, 1; great black-backed gull, 134; herring gull, 1765; ring-billed gull, 3; Bonaparte's gull, 7; kittiwake, 1; rock dove, 24; flicker, 18; hairy woodpecker, 2; downy woodpecker, 14; northern horned lark, 297; blue jay, 58; crow, 174; chickadee, 272; white-breasted nuthatch, 7; red-breasted nuthatch, 2; brown creeper, 1; robin, 13; golden-crowned kinglet, 32; cedar waxwing, 117; northern shrike, 1; starling, 924; myrtle warbler, 244; English sparrow, 115; rusty blackbird, 1; evening grosbeak, 35; purple finch, 91; redpoll, 151; goldfinch, 245; Ipswich sparrow, 1; slate-colored junco, 256; 2 juncos apparently the same race, well seen by many observers, seemed to be intergrades between slate-colored and Oregon juncos; tree sparrow, 292; Harris's sparrow, 1 [no details—Ed.]; white-throated sparrow, 4; fox sparrow, 1; song sparrow, 10; Lapland longspur, 3; snow bunting, 66. **Total,** 59 species; about 10,644 individuals.—Donald C. Alexander, Mr. and Mrs. Arthur W. Argue, James Baird, Dorothy Caldwell, Mr. and Mrs. G. W. Cottrell, R. J. Eaton, Sturgis Eaton, Mrs. Hervey Elkins, Kimball Elkins, Mr. and Mrs. Maurice C. Emery, Ludlow Griscom, Mr. and Mrs. H. N. Halberg, Mary Holmes, James T. Kelly, Brina Kessel, Ralph Lawson, Stephen Maddock, Alan Morgan, Chandler Robbins, Harold Zimmerman.

36. Northampton, Mass. (same circle as in the past 12 years; most of time spent near houses or along edges of fields).—Dec. 22. Fair to cloudy; wind SW to NW, rising to at least 25 m.p.h. with snow-squalls; 2-6 inches crusted snow; Connecticut River mostly open; temp. 33°. Forty-one observers at or near their homes, and 23 in 14 parties, 9 with cars, 1 on horseback, 4 on foot. Hours and miles too many and various to count. Black duck, 75±; wood duck, 1 (♂ with injured wing); Am. golden-eye, 2; Am. merganser, 44+; Cooper's hawk, 3; red-shouldered hawk, 1; duck hawk, 2; sparrow hawk, 6; ruffed grouse, 12; pheasant, 6; herring gull, 6+; screech owl, 1; great horned owl, 3; kingfisher, 1; flicker, 1; hairy woodpecker, 18; downy woodpecker, 60; northern horned lark, 130+; blue jay, 119; crow, 285±; chickadee, 400±; white-breasted nuthatch, 81; red-breasted nuthatch, 1; creeper, 17; winter wren, 2; mockingbird, 1 (resident since Oct. 27); robin, 1; bluebird, 8; golden-crowned kinglet, 35; cedar waxwing, 24; northern shrike, 1; starling, 635 (2000 at a piggery just outside circle); English sparrow, 580; evening grosbeak, 45; purple finch, 8; redpoll, 260+; siskin, 3; goldfinch, 165+; towhee, 1 (♀ at an Amherst feeder since Dec. 9); savannah sparrow, 1 (at another Amherst feeder, Dec. 21 on); junco, 340±; tree sparrow, 315±; field sparrow, 2; white-throated sparrow, 10; song sparrow, 13; snow bunting, 50+. **Total,** 46 species; about 3775 individuals. (A great blue heron was seen Dec. 15, a mallard Dec. 19, a sharp-shinned hawk Dec. 27, a swamp sparrow Dec. 20. A barred owl was heard Dec. 24. A ruby-crowned kinglet was found dead Dec. 28. Cedar waxwings present until Dec. 20-21. A green-tailed towhee appeared at a Northampton feeder on Dec. 31, still there Jan. 21 at which time it had been seen by well over 100 people; several photographs taken; first identified by S. A. Eliot; thought to be immature bird by L. Griscom—S. A. Eliot, Jr.)—Mrs. Howard Alcorn, Mrs. Paul Adams, J. L. Bagg, Mrs. Theodore Baird, Larry Bartlett, Leo Bleasnek, Mrs. R. S. Bracewell, R. M. Clark, R. L. Coffin, L. S. Combs, Isabelle Connor, Edward Cotton, D. H. Crompton, Mrs. M. A. Dickinson, Raymond Donaldson, Mrs. H. W. Doughty, Madeleine Edmonds, S. A. Eliot, Jr., Mrs. R. W. Fessenden, Reginald French, Dwight and John Graves, Cora Grover, Mr. and Mrs. L. J. Halberstadt, Caroline E. Hamilton, Mrs. Ralph Harris, Mrs. W. S. Hawley, Mrs. C. H. Hood, J. L. Huntington, Mrs. J. T. Kentfield, A. S. Kinney, Donald Lacroix, Mrs. Herbert Lang, J. J. Madeira, E. A. Mason, Mrs. John Miller, L. O. Mills, Esther J. Pollard, Mary T. Pomeroy, Mrs. F. C. Pray, Mr. and Mrs. D. A. Riedel, E. B. Risley, Dr. and Mrs. F. A. Saunders, Marie Schurr, Jane Sessions, Mrs. John Sessions, Robert Smart, Ethel M. Smith, Mrs. Felix Southiere, Mr. and Mrs. E. C. Staples, Mrs. H. L. Sweetman, Mrs. G. E. Taylor, P. S. Thayer, Wallace Torrey, Freeman Wakeman, Mrs. Seth Wakeman, Mrs. W. S. Welles, Mrs. P. L. Wheelock, Mrs. Paul Williams, Alice M. Woods.

37. Pittsfield, Mass. (woods and fields on south and north sides of city and feeding stations in town; mixed woodlands 55%, open country 45%).—Dec. 29; 7:30 a.m. to 4 p.m. Overcast; traces of snow in a.m., light but steady sleet in p.m.; temp. 18° to 26°; E wind, 0-4 m.p.h.; 3-5 inches snow with icy, breakable crust; ⅛-½ inch ice on all vegetation; walking very difficult and noisy; still water frozen. Thirteen observers; 4 together, the rest at feeding stations. Total hours, 40; total miles, 6 (on foot). Hairy woodpecker, 2; downy woodpecker, 6; blue jay, 14; crow, 3; black-capped chickadee, 86+; white-breasted nuthatch, 10; red-breasted nuthatch, 4; brown creeper, 2; starling, 39; English sparrow, 118; evening grosbeak, 26; purple finch, 1; redpoll, 67+; goldfinch, 2; slate-colored junco, 14; tree sparrow, 46; snow bunting, 85+. **Total,** 17 species; about 525 individuals. Redpolls were widely distributed; a flock of cedar waxwings reported on Dec. 28.—George Allen, Stanley F. Clarke, Phillip Daoust, Mrs. James E. Gregg, Mr. and Mrs. Bartlett Hendricks, Mr. and Mrs. Donnell D. MacCarthy, Orin P. McCarty, Mr. and Mrs. Saul Minneci, Willard S. Tarbell, William Wetmore (Hoffmann Bird Club).

38. Quincy, Mass. (Quincy Bay, Merrymount Park, and Forbes Hill area; shore area 55%, salt marsh 15%, open woods and park 25%, residential 5%).—Dec. 29; 7 a.m. to 4 p.m. Light driving snow in a.m., intermittent snow and sleet toward noon, changing to freezing rain in p.m.; fog in shore area; visibility ¼ mile, lifting to ½ mile in p.m.; temp. 18° at start, rising to 32°; wind N, veering slightly E, and NNW in p.m., 1-24 m.p.h.; ground covered with 1 inch crusted snow; Black's Creek frozen, 20-100 ft. slush ice along bay shore. Five observers; 3 together in a.m., 2 parties in p.m. Total party hours, 12 (on foot); total party miles, 46 (16 on foot, 30 by car). Black duck, 168; greater scaup, 66; Am. golden-eye, 68; sparrow hawk, 1; ring-necked pheasant, 1; killdeer, 1; great black-backed gull, 3; herring gull, 875; rock dove, 5; flicker, 2; downy woodpecker, 1; northern horned lark, 11; blue jay, 17; crow, 6; black-capped chickadee, 18; white-breasted nuthatch, 3; red-breasted nuthatch, 1; golden-crowned kinglet, 2; starling, 2; myrtle warbler, 4; English sparrow, 51; redpoll, 24; goldfinch, 8; slate-colored junco, 16; tree sparrow, 4; song sparrow, 5. **Total,** 26 species; 1363 individuals. Waterfowl count low due to poor visibility. (Seen in area within 2 days prior to count: buffle-head, 12; white-winged scoter, 7; red-breasted merganser, 4.)—Gertrude E. Allen, Sibley Higginbotham, Donald West, George A. Wilson, Mrs. Frank Wright (South Shore Bird Club).

39. Tupper Hill Wildlife Sanctuary, Wales, Mass. (second-growth woods with grain patches, small lakes, and fields).—Dec. 28; 7 a.m. to 5 p.m. Cloudy; sleeting after 1:30 p.m.; wind N; temp. about 10°; ice on all trees; 2 inches crusted snow on ground. Four observers in 2 parties. Total miles, 14 (9 on foot, 5 by car). Ruffed grouse, 5; pileated woodpecker, 1; hairy woodpecker, 9; downy woodpecker, 4; blue jay, 17; crow, 3; black-capped chickadee, 242; white-breasted nuthatch, 18; brown creeper, 1; robin, 2; golden-crowned kinglet, 8; goldfinch, 10; slate-colored junco, 25; tree sparrow, 41; redpoll, 38. **Total,** 15 species; 424 individuals.—Fay K. Plumley, Arthur D. Norcross, Helen Norcross, Dick Norcross.

40. Ware, Mass. (center of town east to Furnace [Hardwick] and West Brookfield; south on Ware River to Thorndike [Palmer]; north along Muddy Brook to Hardwick Pond; lower Quabbin Reservoir area; Quaboag River from West Brookfield south to West Brimfield; town gardens 5%, open farmland 40%, deciduous woodland 20%, pine woodland 5%, marsh 10%, reservoir watershed 20%).—Dec. 22; 8 a.m. to 4 p.m. Lightly overcast; temp. 32° to 44° F.; wind WSW, 10-40 m.p.h.; ground covered with 2-3 inches snow; Quabbin Reservoir and rapids of rivers and brooks open. Fourteen observers in 5 parties. Total hours, 22 (on foot); total miles, 20 (on foot). Black duck, 5; Am. merganser, 4; red-tailed hawk, 3; red-shouldered hawk, 1; bald eagle, 1; ruffed grouse, 1; herring gull, 18; flicker, 1; hairy woodpecker, 3; downy woodpecker, 7; blue jay, 31; crow, 27; black-capped chickadee, 109; Acadian chickadee, 1; white-breasted nuthatch, 9; brown creeper, 4; golden-crowned kinglet, 25; northern shrike, 3; starling, 173; English sparrow, 125; evening grosbeak, 27; purple finch, 2; common redpoll, 201; goldfinch, 1; slate-colored junco, 53; tree sparrow, 81. **Total,** 26 species; 916 individuals.—L. G. Albertine, M. E. Albertine, S. T. Berube, W. Berube, Leonard Campbell, Leslie Campbell, D. D. Conkey, J. H. Conkey, N. Descoteaux, L. R. Marland, L. Millier, D. Sampson, E. Sampson, P. A. Shea.

41. West Becket, Mass. (cut-over spruce woods and overgrown fields at altitude of 1800 feet).—Dec. 29; 7:30 a.m. to 4:30 p.m. Overcast; light sleet all day; moderate E wind; 5-6 inches icy snow; all vegetation covered with ice; still water frozen. One observer, who could not go far from feeding stations because of extremely bad walking. Total hours, 9; total miles, 1 (on foot). Hairy woodpecker, 1; downy woodpecker, 2; pileated woodpecker, 1; black-capped chickadee, 8; red crossbill, 2. **Total,** 5 species; 14 individuals. —Mrs. Ruth I. Derby (Hoffmann Bird Club).

42. Providence, R.I. (east shore of Narragansett Bay to Barrington, west shore to Warwick Light).—Dec. 27; 7 a.m. to 4 p.m. Clear to cloudy; ground bare; wind NW; ponds frozen; temp. 12° at start, 26° at return. Six observers in 3 parties. Total miles, 74 (60 by car, 14 on foot). European cormorant, 3; great blue heron, 1; black-crowned night heron, 15; mallard, 5; black duck, 923; pintail, 1; greater scaup, 4000 (est.); Am. golden-eye, 280; buffle-head, 40; white-winged scoter, 10; Am. merganser, 85; red-breasted merganser, 58; bald eagle, 1; duck hawk, 1; sparrow hawk, 2; pheasant, 3; great black-backed gull, 7; herring gull, 850; Bonaparte's gull, 60; flicker, 5; downy woodpecker, 8; blue jay, 41; crow, 48; chickadee, 78; white-breasted nuthatch, 6; brown creeper, 4; robin, 1; bluebird, 4; golden-crowned kinglet, 24; starling, 240; myrtle warbler, 86; English sparrow, 50; red-wing, 1; redpoll, 5; goldfinch, 67; junco, 220; tree sparrow, 22; white-throated sparrow, 10; fox sparrow, 1; song sparrow, 24. **Total,** 40 species; about 7290 individuals.—Albert A. Barden, Jr., William B. Dean, David Emerson, Harold N. Gibbs, Robert Batchelder, Carlos G. Wright.

43. South Kingston and Narragansett, R.I. (deciduous woods 20%, brushy fields 30%, open

fields 30%, marshes and shore 20%).—Dec. 24; 7 a.m. to 4:30 p.m. Mostly clear; temp. 40° at start, max. about 48°; wind WSW to W, 5-10 m.p.h.; ground bare and water unfrozen. Two observers in car with short sallies and 2 observers about house. Total party hours, 11 (6 afoot, 5 by car); total miles, 75 (5 on foot, 70 by car). Common loon, 2; red-throated loon, 8; Holboell's grebe, 2; horned grebe, 3; European cormorant, 30; great blue heron, 1; Canada goose, 28; mallard, 4; black duck, 1345; baldpate, 1; pintail, 1; ring-necked duck, 40; greater scaup, 75; lesser scaup, 4; golden-eye, 160; buffle-head, 20; white-winged scoter, 2; surf scoter, 1; Am. scoter, 1; ruddy duck, 3; hooded merganser, 6; Am. merganser, 130; red-breasted merganser, 161; red-tailed hawk, 1; marsh hawk, 2; sparrow hawk, 2; duck hawk, 1; red-backed sandpiper, 19; great black-backed gull, 75; herring gull, 550; ring-billed gull, 26; Bonaparte's gull, 250; flicker, 5; downy woodpecker, 2; northern horned lark, 115; blue jay, 6; crow, 36; chickadee, 15; white-breasted nuthatch, 1; catbird, 3; hermit thrush, 1; bluebird, 12; golden-crowned kinglet, 2; cedar waxwing, 50; northern shrike, 1; starling, 170; myrtle warbler, 40; English sparrow, 106; meadowlark, 5; evening grosbeak, 2; purple finch, 9; goldfinch, 15; towhee, 4; junco, 3; tree sparrow, 31; field sparrow, 10; white-throated sparrow, 55; swamp sparrow, 1; song sparrow, 5; Lapland longspur, 1. **Total,** 60 species; approximately 3660 individuals.—F. Gairloch, S. Gairloch, H. Gates, D. Kraus (Little Rest Bird Club).

44. Tiverton and Little Compton, R.I., and Acoaxet, Mass. (the usual semiwooded, agricultural coastal strip).—Dec. 29; 7:30 a.m. to 3 p.m. Low overcast; ground bare; wind N about 10 m.p.h. until noon, then E about 15 m.p.h.; rain from 1 p.m. on; temp. 30°. Three observers together. Total hours afield, 8 (3 on foot, 5 by car); total party miles, 63 (3 on foot, 60 by car). Common loon, 9; red-throated loon, 1; horned grebe, 1; European cormorant, 250+ (roosting together); double-crested cormorant, 5 (carefully compared through 19x scope); great blue heron, 1; black duck, 315; baldpate, 140; greater scaup, 250; Am. golden-eye, 150+; buffle-head, 22; Am. scoter, 16; white-winged scoter, 280+; surf scoter, 105; red-breasted merganser, 150+; red-shouldered hawk, 1; marsh hawk, 4; sparrow hawk, 5; coot, 44; purple sandpiper, 2; sanderling, 1; great black-backed gull, 55; herring gull, 400+; ring-billed gull, 30; mourning dove, 9; barn owl, 2 (resident pair); flicker, 2; downy woodpecker, 2; northern horned lark, 225+; blue jay, 12; crow, 180+; chickadee, 30+; robin, 2; starling, 400+; myrtle warbler, 12; palm warbler, 2; English sparrow, 150+; meadowlark, 46; purple finch, 1; pine siskin, 35 (3 flocks); goldfinch, 3; savannah sparrow, 25+ (mostly in unharvested cabbage field); vesper sparrow, 1; junco, 20+; tree sparrow, 22; white-throated sparrow, 15; fox sparrow, 1; swamp sparrow, 1; song sparrow, 16+. **Total,** 49 species; about 3451 individuals.—Burton D. Bryan, Henry Parker, Roland C. Clement.

45. Bethany to New Haven Harbor, Conn. (second-growth deciduous woods, pine groves, and upland pastures 80%, fresh-water marsh 5%, salt-water beach and foreshore 15%).—Dec. 26; 7:30 a.m. to 12 m., 1 to 4:30 p.m. Prevailingly overcast, with occasional sunshine and 2 slight snow flurries; wind W, 18-25 m.p.h.; temp. 28° at sunrise, increasing slightly in a.m. but falling sharply later; ponds mostly frozen, thin snow on ground in shaded sites. Three observers together, joined by last 2 in p.m. Total miles, 39 (9 on foot, 30 by car). Horned grebe, 5; Canada goose, 9 (volant, but not certainly wild); mallard, 8; black duck, 46; greater scaup, 356 (partly est.); golden-eye, 17; old-squaw, 6 (all in pairs); white-winged scoter, 96; Am. merganser, 1 (on reservoir); red-breasted merganser, 4; red-tailed hawk, 1; ruffed grouse, 2; pheasant, 3; killdeer, 8; great black-backed gull, 5; herring gull, 556 (several dense clusters est.); ring-billed gull, 30; hairy woodpecker, 1; downy woodpecker, 6; blue jay, 2; crow, 9; black-capped chickadee, 24; white-breasted nuthatch, 2; bluebird, 14; golden-crowned kinglet, 1; pipit, 200 (est. in 2 closely associated moving flocks); cedar waxwing, 2 (plucked plumage of a third, apparently captured by owl); starling, 53; myrtle warbler, 58; English sparrow, 62; meadowlark, 1; purple finch, 6; goldfinch, 7; slate-colored junco, 23; white-throated sparrow, 7; song sparrow, 1. **Total,** 36 species; about 1632 individuals. — Frank P. Mathews, Amos C. Murphy, Robert Cushman Murphy; in afternoon, Margaret and Lawrence Murphy.

46. Hartford, Conn. (territory within 7½ miles of center of city; open fields, marshes, hemlock groves, deciduous growth, Connecticut River, and ponds).—Dec. 28; dawn to dusk. Overcast; temp. 16° to 29° F.; ground covered with 2 inches crusted snow; trees and vegetation ice covered; Conn. River partially open; ponds open in small spots. Thirty-three observers in 20 parties. Total hours, 77; total miles, 192 (88 on foot, 104 by car). Black duck, 134; Am. golden-eye, 1 (♀; species assumed—E.A.B.); Am. merganser, 48; goshawk, 1; sharp-shinned hawk, 1; red-shouldered hawk, 3; bald eagle, 1; marsh hawk, 3; duck hawk, 1; sparrow hawk, 8; ring-necked pheasant, 12; herring gull, 106; ring-billed gull, 8; mourning dove, 12; screech owl, 1; short-eared owl, 1; flicker, 3; hairy woodpecker, 17; downy woodpecker, 56; northern horned lark, 51; blue jay, 156; crow, 268; black-capped chickadee, 153; white-breasted nuthatch,

42; red-breasted nuthatch, 4; brown creeper, 20; winter wren, 2; robin, 5; bluebird, 66; golden-crowned kinglet, 53; ruby-crowned kinglet, 2; cedar waxwing, 12; starling, 632; myrtle warbler, 5; English sparrow, 348; red-wing, 60; evening grosbeak, 11; purple finch, 6; redpoll, 45; pine siskin, 93; goldfinch, 161; slate-colored junco, 284; tree sparrow, 294; field sparrow, 11; white-throated sparrow, 35; swamp sparrow, 1; song sparrow, 68; Lapland longspur, 2; snow bunting, 4. **Total,** 49 species; 3311 individuals. (Seen in area during week of Dec. 25: mockingbird, hermit thrush, barred owl, barn owl, snowy owl, meadowlark, hooded merganser, and coot.) —Mrs. Hilda Amidon, Mrs. H. P. Austin, Mrs. W. A. Ball, D. Barber, F. T. Bashour, R. Belden, E. A. Bergstrom, J. Bidwell, Mr. and Mrs. C. W. Catlin, E. Chittenden, E. DeRoehn, Laura East, W. Eblen, P. E. Fellows, Mr. and Mrs. L. I. French, Gretchen Harper, H. Liebe, E. Maines, J. O'Brien, G. H. Parks, A. G. Powers, Doris Purinton, Mr. and Mrs. R. Risley, Mrs. T. B. Rhines, Ruth Spaulding, A. D. Spring, M. Tourison, E. Wadstrom, C. Waite, N. West (Hartford Bird Study Club).

47. Oxford, Conn. (Park Road north to Quaker Farms, Stevenson to Squantuck, and back over Rockhouse Hill; open land 20%, brushland 50%, deciduous woodland 10%, river front 15%, hemlock woods 5%).—Dec. 29; 7 a.m. to 2:15 p.m. Sleet and ice storm; wind NE, 19-24 m.p.h.; temp. 18° at start, 28° at return; trace of snow; quiet ponds frozen, river mostly open. Total hours, 7¼ (on foot); total miles, 15 (on foot). Ruffed grouse, 4; herring gull, 2; mourning dove, 5; kingfisher, 3; flicker, 6; downy woodpecker, 10; blue jay, 17; crow, 27; chickadee, 72; white-breasted nuthatch, 3; brown creeper, 4; winter wren, 1; bluebird, 21; golden-crowned kinglet, 13; cedar waxwing, 50; starling, 58; myrtle warbler, 66; English sparrow, 23; purple finch, 36; pine siskin, 116; goldfinch, 21; vesper sparrow, 1 (white outer tail feathers clearly noted); junco, 53; tree sparrow, 50; song sparrow, 4. **Total,** 25 species; 666 individuals.—Alfred P. Harger.

48. Westport-Fairfield, Conn. (same area as last year, with inclusion of Sherwood Island, Birdcraft Sanctuary at Fairfield, and stretch of shoreline).—Dec. 26; 7:45 a.m. to 5 p.m. Clear in early a.m., with light snowfall in late a.m., then clearing for rest of day; temp. 24° to 40°; wind NW, 5-20 m.p.h. inland, up to 50 m.p.h. on coast; fresh water partly open, salt water entirely open. Total hours afield, 20 (19 on foot, 1 by car); total miles, 38 (27 on foot, 11 by car). Five observers in 2 parties with warden watching sanctuary for part of day. Loon (sp.?), 1; Holboell's grebe, 1; horned grebe, 13; great blue heron, 9; mute swan, 2 [feral?—Ed.]; mallard, 9; black duck, 92; Am. golden-eye, 16; buffle-head, 35; old-squaw, 11; white-winged scoter, 659 (partly est.); scoter (sp.?), 1456 (partly est.); Am. merganser, 22; red-breasted merganser, 30; Cooper's hawk, 1; sparrow hawk, 2; pheasant, 10; killdeer, 3; greater yellow-legs, 2 (R.S., R.G., S.O.); black-backed gull, 5; herring gull, 543 (partly est.); ring-billed gull, 1; Bonaparte's gull, 3; rock dove, 12; kingfisher, 2; flicker, 1; downy woodpecker, 8; northern horned lark, 7; blue jay, 14; crow, 47; black-capped chickadee, 80; white-breasted nuthatch, 6; brown creeper, 7; Carolina wren, 1 (warden); catbird, 1 (warden); hermit thrush, 1 (R.R., R.N.); golden-crowned kinglet, 8; cedar waxwing, 30; starling, 62; myrtle warbler, 26; English sparrow, 155; meadowlark, 2; cardinal, 1 (♂); purple finch, 12; goldfinch, 72; slate-colored junco, 119; tree sparrow, 68; white-throated sparrow, 42; song sparrow, 16; snow bunting, 1. **Total,** 48 species; about 3727 individuals. (Seen in area Dec. 25, 27, and 28: scaup, 25; hooded merganser, 4; winter wren, 1; bluebird, 15; pine siskin, 19.)—Richard Gershon, Richard Novick, Stephen Oresman, Richard Rogin, Richard Soffer, Warden of Birdcraft Sanctuary.

[Another count covering much of the same territory was made on Dec. 27 by Andrew H. Wolff and John L. Radel, Jr., who recorded the following additional species: greater scaup, 500 (est.); yellow-bellied sapsucker, 1; winter wren, 1; bluebird, 2. Total, 40 species; about 1872 individuals.—Ed.]

49. Brooklyn, L.I., N.Y. (The Narrows, Dyker, east to Old Mill, New Lots, Crossbay Blvd., Jamaica Bay, west of Crossbay, Reis Park to Rockaway Pt. jetty).—Dec. 22; 7 a.m. to 5 p.m. Partly cloudy; temp. 31° to 40°; strong NW wind. Sixteen observers in 8 parties. Common loon, 7; red-throated loon, 1; Holboell's grebe, 1; gannet, 1 (imm.); European cormorant, 2 (P.W.) [no further details; regional status unverified, vide Cruickshank's "Birds around New York City"—Ed.]; great blue heron, 2; black-crowned night heron, 2; mallard, 11; black duck, 402; redhead, 3; greater scaup, 6000+; golden-eye, 138; buffle-head, 6; old-squaw, 2; white-winged scoter, 1; surf scoter, 1; Am. merganser, 4; red-breasted merganser, 290; sharp-shinned hawk, 2; Cooper's hawk, 2; red-shouldered hawk, 1; marsh hawk, 5; sparrow hawk, 6; clapper rail, 1; killdeer, 2; ruddy turnstone, 1; greater yellow-legs, 1; purple sandpiper, 10; sanderling, 24; black-backed gull, 160; herring gull, 14,000+; ring-billed gull, 135; laughing gull, 5; Bonaparte's gull, 2200 (est.); rock dove, 200 (est.; feral); short-eared owl, 1; flicker, 3; downy woodpecker, 10; Arkansas kingbird, 1 (seen at 15-20 ft. through 8x glasses in pines near golf course at Reis Park; observer familiar with all field marks—P.W.); horned lark (sp.?), 3;

northern horned lark, 112; prairie horned lark, 2; tree swallow, 10; blue jay, 7; crow, 34; fish crow, 3; chickadee, 16; white-breasted nuthatch, 5; red-breasted nuthatch, 5; brown creeper, 6; robin, 2; starling, abundant; myrtle warbler, 30; English sparrow, abundant [come on, Brooklyn, count 'em up along with the starlings—Ed.]; meadowlark, 21; red-wing, 7; cowbird, 2; cardinal, 2; goldfinch, 8; Ipswich sparrow, 1; savannah sparrow, 29; junco, 84; tree sparrow, 19; field sparrow, 1; white-throated sparrow, 44; fox sparrow, 5; swamp sparrow, 1; song sparrow, 18; Lapland longspur, 2; snow bunting, 6. **Total,** 69 species and subspecies; about 24,129 individuals.—A. Alperin, M. and B. Bloom, R. Clermont, W. Ferguson, E. Fleisher, A. Gill, M. Jacobson, E. Levine, W. Pieczur, W. Sedwitz, J. Sall, T. Tengwall, P. Wells, E. Whelen, J. Yrizarry (Brooklyn Bird Club).

50. East Hampton, L.I., N.Y. (shores of Gardiner's Bay at Springs, Fire Place, and Cedar Point west to west shore Mecox Bay and Watermill Pond, covering ocean beaches and dunes, coastwise ponds, fresh, brackish, and salt; oak woods, oak-pine barrens, villages, open potato fields, farmyard and cottage properties, salt marshes, thickets, hedge-rows, etc.).—Dec. 28; 6 a.m. to dark. Hard rain before dawn to 5:45 a.m., then overcast, clearing in p.m.; temp. 50° at start, 25° at return; wind SW, changing to NW in p.m., and from 1-7 to 8-12 m.p.h.; ground bare; most fresh-water ponds frozen, except for small areas. Five observers in 2 parties. Total hours, 21; total miles, 100 (50 by car, 50 on foot). Common loon, 16; red-throated loon, 2; Holboell's grebe, 2; horned grebe, 1; gannet, 106; great blue heron, 1; black-crowned night heron, 1; bittern, 1; mute swan, 50; whistling swan, 1 (immature bird on Hook Pond, with 29 mute swans; carefully watched at 50 yds. through 8x binoculars—R.B.F., W.T.H.); Canada goose, 301; mallard, 5; black duck, 224; baldpate, 22; green-winged teal, 2; shoveller, 2 (in poor light, but at close range in Mecox Bay—R.B.F., W.T.H.); ring-necked duck, 7 (Watermill Pond, with scaups—G.D.S., H.S., T.D.S.); canvas-back, 20; scaup (probably greater), 36; Am. golden-eye, 42; buffle-head, 18; old-squaw, 66; white-winged scoter, 289+; surf scoter, 85+; Am. scoter, 1 (ad. ♂); unidentified scoters, 650+; ruddy duck, 4; hooded merganser, 1; red-breasted merganser, 94; Am. merganser, 6; sharp-shinned hawk, 3; marsh hawk, 1; duck hawk, 1; sparrow hawk, 5; pheasant, 1; coot, 20; Wilson's snipe, 1; black-backed gull, 82; herring gull, 1148+; ring-billed gull, 63; rock dove, 8; mourning dove, 1; barn owl, 1; screech owl, 1; belted kingfisher, 1; flicker, 7; hairy woodpecker, 1; downy woodpecker, 3; horned lark, 300+; blue jay, 25; crow, 68; chickadee, 56; red-breasted nuthatch, 1; brown creeper, 1 (2 others probably heard); long-billed marsh wren, 1 (heard and seen in cattails at Hook Pond—R.B.F., W.T.H.); catbird, 4; robin, 4; hermit thrush, 7; golden-crowned kinglet, 21; cedar waxwing, 300+ (flock); starling, 250; shrike (probably northern), 1; myrtle warbler, 587+; palm warbler, 1 (probably western—G.D.S.); English sparrow, 70+; meadowlark, 41; red-wing, 1; cowbird, 16; purple finch, 16; redpoll, 13; pine siskin, 43; goldfinch, 54; savannah sparrow, 4; sharp-tailed sparrow, 1; junco, 120; tree sparrow, 74; field sparrow, 4; white-throated sparrow, 135; fox sparrow, 7; swamp sparrow, 8; song sparrow, 18; snow bunting, 6. **Total,** 81 species; about 5664 individuals. (Seen in area Dec. 27: saw-whet owl, 1; evening grosbeak, 15; great horned owl, 1; white-breasted nuthatch, 3—G.D.S., W.T.H.)—Richard B. Fischer, William T. Helmuth 3rd, George D. Scott, Jr., Henry Scott, Thomas D. Scott.

51. Mastic, L.I., N.Y. (mainland only, and 10 miles of highroad to Patchogue by car).—Dec. 29; 8:15 a.m. to 2:15 p.m. Overcast early, rain later; no snow; creeks and bay without ice; wind mostly moderate, ENE, varying light to fresh, and to SSE; temp. about 30° to 35°. Great blue heron, 4; mute swan, 4 (highroad); mallard, 2; black duck, 60; scaup, 500 (est.); hooded merganser, 2; great black-backed gull, 2; herring gull, 15; ring-billed gull, 3; mourning dove, 1; kingfisher, 1 (highroad—W.F.N.); downy woodpecker, 1; blue jay, 2; crow, 15; chickadee, 18; starling, 16 (highroad); myrtle warbler, 90; towhee, 2; junco, 3 (highroad); tree sparrow, 5; white-throated sparrow, 5; fox sparrow, 1 (W.F.N.); song sparrow, 1. **Total,** 23 species; about 753 individuals.—J. T. and W. F. Nichols.

52. Montauk, L.I., N.Y. (Montauk Point west to Promised Land and Beachhampton; grassy and bushy hills 50%, sand dunes, 15%, deciduous woods 10%, sandy beach 5%, rocky beach 5%, scrub pine 7%, salt marsh 5%, farmland 2%, residential 1%).—Dec. 29; 6:30 a.m. to 3:30 p.m. Overcast, with heavy rain after 12 noon; wind ESE to SE, 15-30 m.p.h.; visibility ½ mile; clouds at 500 ft.; temp. 28° to 35°; ground bare; fresh-water ponds half to fully frozen. Seventeen observers in 5 parties. Common loon, 65; red-throated loon, 15; horned grebe, 16; gannet, 150; double-crested cormorant, 2; great blue heron, 1; Canada goose, 6; black duck, 16; pintail, 2; greater scaup, 250; Am. golden-eye, 350; buffle-head, 34; old-squaw, 35; harlequin duck, 1 (♀); king eider, 5; white-winged scoter, 3000 (est.); surf scoter, 275; Am. scoter, 100; hooded merganser, 1; Am. merganser, 8; red-breasted merganser, 1200 (est.); sharp-shinned hawk, 2; Cooper's hawk, 1; red-tailed hawk, 1; marsh hawk, 1; duck hawk, 1; sparrow hawk, 1; Wil-

son's snipe, 1; black-backed gull, 80; herring gull, 783; ring-billed gull, 11; Bonaparte's gull, 240; kittiwake, 1; screech owl, 2; long-eared owl, 6; kingfisher, 1; flicker, 4; downy woodpecker, 2; northern horned lark, 22; prairie horned lark, 1; blue jay, 2; crow, 36; chickadee, 50; red-breasted nuthatch, 7; robin, 1; hermit thrush, 2; bluebird, 2; starling, 150; myrtle warbler, 3500 (est.); pine warbler, 1; western palm warbler, 1; English sparrow, 20; meadowlark, 7; cowbird, 100; redpoll, 4; pine siskin, 28; goldfinch, 26; red crossbill, 3; towhee, 3; savannah sparrow, 3; vesper sparrow, 1; junco, 25; tree sparrow, 206; chipping sparrow, 1; field sparrow, 1; white-throated sparrow, 25; fox sparrow, 1; swamp sparrow, 1; song sparrow, 35; snow bunting, 75. **Total,** 69 species; about 11,010 individuals.—I. Alperin, B. Ferguson, E. Finkel, R. Fischer, W. Helmuth 3rd, M. Isler, M. Jacobson, E. Levine, C. McKeever, W. Pieczur, H. Scott, P. Scott, T. Scott, W. Sedwitz, J. Soll, P. Wells, G. Whelan.

53. Oak Beach, L.I., N.Y. (east to Captree, west to Tobay; typical outer strip; sandy beach and dunes 20%, bayberry and poison ivy thickets with some pines 30%, salt marsh 50%).—Dec. 26; dawn to dusk. Partly cloudy; temp. 20° to 33°; wind SW, 35 m.p.h.; all water open. Four observers working separately. Total hours, 36 (on foot); total miles, 40 (on foot). Common loon, 2; red-throated loon, 1; gannet, 3; great blue heron, 12; black-crowned night heron, 1; Am. bittern, 1; Canada goose, 33; snow goose, 2 (1 flying low overhead—J.Y.; 1 found dead—W.F., M.I.); mallard, 10; black duck, 500 (est.); European widgeon, 1; baldpate, 15; pintail, 180; green-winged teal, 30; shoveller, 2; greater scaup, 1; white-winged scoter, 93; surf scoter, 3; Am. scoter, 4; ruddy duck, 1; hooded merganser, 4; red-breasted merganser, 29; sharp-shinned hawk, 1; Cooper's hawk, 1; marsh hawk, 9; sparrow hawk, 1; pheasant, 1; clapper rail, 1 (J.Y.); sanderling, 20; black-backed gull, 108; herring gull, 1850; ring-billed gull, 16; Bonaparte's gull, 8; rock dove, 2 (found dead); flicker, 4; horned lark, 70; crow, 6; chickadee, 1; red-breasted nuthatch, 4; short-billed marsh wren, 1 (closely observed through 6x glasses—J.Y.; was known to be in area); catbird, 1 (P.W.); robin, 3; golden-crowned kinglet, 2; starling, 300 (est.); myrtle warbler, 450; English sparrow, 12; meadowlark, 1; red-wing, 5; cowbird, 1; siskin, 14; goldfinch, 6; savannah sparrow, 8; junco, 26; tree sparrow, 54; field sparrow, 4; white-throated sparrow, 40; fox sparrow, 1; song sparrow, 9; snow bunting, 1. **Total,** 59 species; about 3970 individuals.—W. Ferguson, M. Isler, P. V. Wells, J. C. Yrizarry.

54. Smithtown, L.I., N.Y. (T. J. White estate, Nissequogue River, Short and Long Beaches, Stony Brook Harbor, and Old Field Point; marsh 30%, fields 10%, wooded swamps 25%, woods 10%, shore 25%).—Dec. 23; 5:50 a.m. to 4:40 p.m. Fair; visibility good; sound, bays, and ponds unfrozen; temp. 25° to 42° to 34°. Three observers working singly and together. Total miles, 74 (60 by car, 14 on foot). Common loon, 2; horned grebe, 35; great blue heron, 2; black-crowned night heron, 1; mute swan, 31; mallard, 14; black duck, 400 (est.); baldpate, 9; ring-necked duck, 55; canvas-back, 1; lesser scaup, 10; Am. golden-eye, 25; buffle-head, 2; old-squaw, 23; Am. scoter, 6; white-winged scoter, 1700 (est.); surf scoter, 50 (est.); hooded merganser, 1; Am. merganser, 7; red-breasted merganser, 27; sharp-shinned hawk, 4; red-tailed hawk, 1; red-shouldered hawk, 1; Florida gallinule, 1 (sitting at edge of a village pond; studied in detail by all); coot, 5; black-backed gull, 6; herring gull, 450 (est.); ring-billed gull, 128; rock dove, 3; mourning dove, 27; screech owl, 2; long-eared owl, 1; kingfisher, 2; flicker, 55; yellow-bellied sapsucker, 1; hairy woodpecker, 4; downy woodpecker, 16; phoebe, 1 (third consecutive year); blue jay, 80; crow, 125; fish crow, 18; black-capped chickadee, 48; white-breasted nuthatch, 20; winter wren, 8; catbird, 4; robin, 55; hermit thrush, 1; bluebird, 70; golden-crowned kinglet, 8; Am. pipit, 1; cedar waxwing, 225 (est.); starling, 300 (est.); myrtle warbler, 90 (est.); English sparrow, 25; red-wing, 52; rusty blackbird, 32; cowbird, 4; purple finch, 46; redpoll, 18; pine siskin, 180 (est.); goldfinch, 68; savannah sparrow, 1; slate-colored junco, 22; tree sparrow, 15; white-throated sparrow, 74; swamp sparrow, 8; song sparrow, 33; snow bunting, 36. **Total,** 68 species; approximately 4776 individuals. (Pair of gadwall seen Dec. 27.)—Richard B. Fischer, Grier Ralston, Robert Ralston.

55. South Haven to Westhampton Beach, L.I., N.Y.—Dec. 28; 8 a.m. to 4 p.m. Cloudy; temp. 44° to 41°; wind light to moderate, W. Red-throated loon, 1; gannet, 2; double-crested cormorant, 1; great blue heron, 7; mute swan, 106; Canada goose, 14; mallard, 20; black duck, 600 (est.); gadwall, 1; baldpate, 250; pintail, 80; green-winged teal, 2; ring-necked duck, 110; greater scaup, 3000 (est.); lesser scaup, 3; Am. golden-eye, 50; buffle-head, 11; old-squaw, 2; Am. scoter, 2; white-winged scoter, 40; hooded merganser, 4; red-breasted merganser, 27; Cooper's hawk, 1; bald eagle, 1; marsh hawk, 1; sparrow hawk, 3; coot, 1; great black-backed gull, 10; herring gull, 300 (est.); ring-billed gull, 5; snowy owl, 1; flicker, 1; downy woodpecker, 1; northern horned lark, 20; blue jay, 5; crow, 21; black-capped chickadee, 12; white-breasted nuthatch, 2; red-breasted nuthatch, 2; golden-crowned kinglet, 2; migrant shrike, 1; starling, 360; myrtle warbler, 65; English spar-

row, 50; meadowlark, 4; goldfinch, 1; savannah sparrow, 9; tree sparrow, 6; white-throated sparrow, 3; swamp sparrow, 1; song sparrow, 16; snow bunting, 6. **Total,** 52 species; about 5244 individuals.—LeRoy Wilcox.

56. Southern Nassau County, L.I., N.Y. (½ mile east of Atlantic Beach jetty east to Jones Beach, north to Hempstead and Garden City, west almost to New Hyde Park, southwest to Rockaway Blvd., Burnside Ave., and Doughty Blvd., including Lawrence, Woodmere Woods, and Valley Stream State Park).—Dec. 29; 6:30 a.m. to 5 p.m. Dark, cloudy; fog and steady rain and hail from 10 a.m. to dark; moderate wind NE; temp. 22° to 32°. Eighteen observers in 5 parties. Total hours, 120. Common loon, 4; red-throated loon, 1; horned grebe, 3; pied-billed grebe, 2; gannet, 2; double-crested cormorant, 4; great blue heron, 3; black-crowned night heron, 17; Am. bittern, 2; mute swan, 2; Canada goose, 5; mallard, 255; black duck, 1500 (est.); gadwall, 5; European widgeon, 5; baldpate, 280; pintail, 181; green-winged teal, 65; shoveller, 12; wood duck, 2; ring-necked duck, 1; greater scaup, 1; golden-eye, 1; buffle-head, 2; old-squaw, 2; white-winged scoter, 60; ruddy duck, 1; Am. merganser, 11; red-breasted merganser, 6; Cooper's hawk, 3; marsh hawk, 7; sparrow hawk, 3; pheasant, 1; coot, 3; killdeer, 3; woodcock, 1; red-backed sandpiper, 5; sanderling, 1; great black-backed gull, 92; herring gull, 2200 (est.); ring-billed gull, 28; Bonaparte's gull, 2; mourning dove, 1; short-eared owl, 1; kingfisher, 2; hairy woodpecker, 2; downy woodpecker, 6; flicker, 1; northern horned lark, 142; prairie horned lark, 11; blue jay, 59; crow, 51; black-capped chickadee, 29; white-breasted nuthatch, 2; red-breasted nuthatch, 12; brown creeper, 2; winter wren, 1; short-billed marsh wren, 2; Carolina wren, 1; catbird, 2; robin, 10; hermit thrush, 1; golden-crowned kinglet, 16; starling, 1225; myrtle warbler, 220; English sparrow, 170; meadowlark, 30; purple grackle, 2; cowbird, 100; purple finch, 2; pine siskin, 4; goldfinch, 32; Ipswich sparrow, 1; savannah sparrow, 6; vesper sparrow, 25 (1 flock—B.B., J.B., E.E.); slate-colored junco, 75; tree sparrow, 140; field sparrow, 4; white-throated sparrow, 94; fox sparrow, 3; swamp sparrow, 1; song sparrow, 64. **Total,** 82 species and subspecies; approximately 7336 individuals. (Seen in area during count period: hooded merganser, saw-whet owl, evening grosbeak, tree swallow.) —Robert Abrahams, Robert Arbib, Jr., Dr. and Mrs. Benjamin Berliner, Dr. and Mrs. Robert Berliner, Mr. and Mrs. Daniel Berolzheimer, John Bull, Edna Campbell, Eugene Eisenmann, John Elliott, George Greller, E. Karlin, J. Karlin, George Rose, E. Stevens, Richard Sloss.

[Another count covering much of the same territory was made on Dec. 27 by Robert DeMars, Leonard Grossman, and John New, who recorded a total of 25 species and about 877 individuals. Additional species observed by this group were: rough-legged hawk, 1; tree swallow, 16; red-wing, 2; sharp-tailed sparrow, 4.—Ed.]

57. Western Long Island, N.Y. (Flushing Bay to North Hills, Whitestone to Atlantic Beach, east from Cross Bay Blvd. to Central Ave. and Broadway; [lack of time prevented clarification of the vaguely defined eastern boundary of this area; future reports should describe this more clearly so as to indicate that no overlap occurs with any other longer-established count territory—Ed.]; suburban New York City 30%, Atlantic Ocean coast 1%, coastal marshes 20%, fresh water 4%, deciduous woods 10%, open fields 30%, evergreen woods 5%).—Dec. 28; dawn to dusk. Light rain, clearing in early a.m. to heavy overcast in p.m.; temp. 26° to 35° F.; wind SW veering to W, 10-15 m.p.h.; thin ice on some fresh water. Twenty-six observers in 9 parties. Total hours, 70 (58 on foot, 12 by car); total miles 109 (79 on foot, 30 by car). Common loon, 3; horned grebe, 1; gannet, 3; double-crested cormorant, 3; great blue heron, 1; black-crowned night heron, 37; mute swan, 3; mallard, 119; black duck, 1170; gadwall, 1; European widgeon, 3; baldpate, 91; pintail, 52; green-winged teal, 38; shoveller, 15; wood duck, 1; ring-necked duck, 2; canvas-back, 181; greater scaup, 4036; lesser scaup, 2; golden-eye, 431; buffle-head, 108; white-winged scoter, 3; ruddy duck, 1; hooded merganser, 4; Am. merganser, 2; red-breasted merganser, 132; goshawk, 1; sharp-shinned hawk, 3; Cooper's hawk, 1; red-tailed hawk, 8; red-shouldered hawk, 1; marsh hawk, 4; duck hawk, 1; sparrow hawk, 26; bob-white, 21; pheasant, 8; clapper rail, 1; coot, 2; killdeer, 21; Wilson's snipe, 1; greater yellow-legs, 1; purple sandpiper, 8; sanderling, 7; Iceland gull, 1; great black-backed gull, 81; herring gull, 5000 (est.); ring-billed gull, 107; Bonaparte's gull, 1; rock dove, 32; mourning dove, 8; barn owl, 1; screech owl, 5; snowy owl, 1; long-eared owl, 2; short-eared owl, 1; saw-whet owl, 1; kingfisher, 1; flicker, 7; hairy woodpecker, 2; downy woodpecker, 30; prairie horned lark, 32; northern horned lark, 62; blue jay, 109; crow, 127; fish crow, 2; black-capped chickadee, 65; white-breasted nuthatch, 19; red-breasted nuthatch, 2; brown creeper, 11; winter wren, 8; Carolina wren, 2; long-billed marsh wren, 1; catbird, 1; robin, 2; hermit thrush, 4; bluebird, 5; golden-crowned kinglet, 29; pipit, 3; starling, 4000 (est.); myrtle warbler, 25; western palm warbler, 1; English sparrow, 250; meadowlark, 10; red-wing, 78; rusty blackbird, 2; purple grackle, 9; bronzed grackle, 50; cowbird, 42; cardinal, 2; purple finch, 2; pine siskin, 1; goldfinch, 132; red-eyed towhee, 1; Ipswich sparrow, 1; savannah sparrow, 29;

sharp-tailed sparrow, 1; seaside sparrow, 1; slate-colored junco, 237; tree sparrow, 144; field sparrow, 31; white-throated sparrow, 169; fox sparrow, 18; swamp sparrow, 4; song sparrow, 126; snow bunting, 10. **Total,** 106 species and subspecies; about 17,699 individuals.—R. Adelson, W. O. Astle, W. R. Astle, B. Barton, J. L. Bull, H. Bohn, R. Childs, R. Dawson, E. Eisenmann, G. Flavin, H. Gobel, L. H. Hutton, E. Kerchmeier, J. Mayer, W. W. Reid, W. W. Reid, Jr., J. Ricksher, Mrs. W. W. Reid, G. T. Rogers, G. Sipp, G. Sipp, Jr., F. Smithe, N. Smithe, A. Skopec, Mrs. I. W. Smith, S. Yeaton (Queens County Bird Club).

58. Bear Mountain-Harriman State Parks, N.Y. (Bear Mountain and Iona Island west to E. Lake Sebago; deciduous woods 1 hour, coniferous woods 2 hours, open fields 2 hours, cattail marsh ¾ hour, river and lake shore 2¼ hours).—Dec. 22; 8 a.m. to 4 p.m. Mostly clear, with occasional snow flurries; temp. 31° to 33°; wind 30 m.p.h.; ground bare to 2-inch crusted snow in interior of park. Five observers together. Total miles, 48 (40 by car, 8 on foot). Mallard, 4; black duck, 400+; hooded merganser, 1; Am. merganser, 23; red-tailed hawk, 1; bald eagle, 2; duck hawk, 1; ruffed grouse, 6; herring gull, 12; blue jay, 2; crow, 12; black-capped chickadee, 9; white-breasted nuthatch, 3; golden-crowned kinglet, 8; starling, 5; English sparrow, 17; goldfinch, 20; slate-colored junco, 9; tree sparrow, 14; song sparrow, 2; snow bunting, 3. **Total,** 21 species; about 554 individuals.—Stanley Grierson, Arthur Weeks, John Kenney, Peter Smith, John Orth.

59. Bronx-Westchester Region, N.Y. (northern Bronx and southern Westchester counties as far as Irvington and Scarsdale, and Rye, east to, but not including, Manursing Island).—Dec. 22. Party cloudy; steady NW wind; temp. 34° all day; ground mostly bare, with patches of snow; inland fresh-water ponds partly frozen. Forty-four observers in 6 parties. Total hours, 66 (20 by car, 46 on foot); total miles, 58 (22 by car, 36 on foot). Common loon, 3; red-throated loon, 5; Holboell's grebe, 2; horned grebe, 1; cormorant (unidentified), 1; great blue heron, 23; black-crowned night heron, 5; Am. bittern, 1; Canada goose, 39; snow goose, 1 (new to region); mallard, 171; black duck, 2320 (est.); baldpate, 9; pintail, 9; green-winged teal, 8; blue-winged teal, 1 (new to region, very rare in winter); greater scaup, 5200 (est.); Am. golden-eye, 212; buffle-head, 23; old-squaw, 7; white-winged scoter, 250; surf scoter, 6; Am. scoter, 1; hooded merganser, 46; Am. merganser, 86; red-breasted merganser, 335; sharp-shinned hawk, 3; Cooper's hawk, 4; red-tailed hawk, 21; red-shouldered hawk, 5; marsh hawk, 3; duck hawk, 2; pigeon hawk, 1 (third time in region, very well seen); sparrow hawk, 20; ring-necked pheasant, 30; sora, 1; killdeer, 32; greater yellow-legs, 3; lesser yellow-legs, 3 (new to region; direct size comparison with greater yellow-legs, plus difference in size of bills—C.R., R.R., R.F.); purple sandpiper, 40; glaucous gull, 1; Iceland gull, 1; black-backed gull, 35; herring gull, 13,750 (est.); ring-billed gull, 7; laughing gull, 3 (second time in region); Bonaparte's gull, 5; rock dove, 140; mourning dove, 2; barn owl, 3; screech owl, 3; great horned owl, 2; barred owl, 2; long-eared owl, 3; short-eared owl, 2; saw-whet owl, 1; belted kingfisher, 6; flicker, 29; hairy woodpecker, 15; downy woodpecker, 62; northern horned lark, 10; prairie horned lark, 1 (second time in region); blue jay, 131; crow, 210; black-capped chickadee, 350 (est.); white-breasted nuthatch, 63; red-breasted nuthatch, 7; brown creeper, 46; winter wren, 3; long-billed marsh wren, 2; robin, 2; hermit thrush, 2; bluebird, 9; golden-crowned kinglet, 33; ruby-crowned kinglet, 2; pipit, 1; cedar waxwing, 31; starling, 13,000 (est.); myrtle warbler, 61; English sparrow, 350 (est.); meadowlark, 38; red-wing, 71; grackle, 43; cowbird, 80; cardinal, 8; purple finch, 27; redpoll, 12; pine siskin, 57; goldfinch, 162; towhee, 1; savannah sparrow, 7; sharp-tailed sparrow, 2; slate-colored junco, 383; tree sparrow, 193; field sparrow, 60; white-throated sparrow, 133; fox sparrow, 8; swamp sparrow, 3; song sparrow, 121; snow bunting, 7. **Total,** 100 species and subspecies; approximately 38,735 individuals.—J. Bull, I. Cantor, Mr. and Mrs. A. Cruickshank, H. Darrow, R. DeMars, E. Eisenmann, R. Fischer, H. Forster, D. Gershon, G. Goldstein, S. Harriot, D. Heller, R. Herbert, M. Isler, E. Karlin, I. Kassoy, J. Kieran, G. Komorowski, R. Nagler, W. Norse, R. Oresman, S. Oresman, H. Poor, G. Ralston, R. Ralston, D. Roche, J. Roe, J. Rubenstein, M. Russak, R. Schwagerl, A. Small, N. Smithe, R. Soffer, J. Stegle, A. Thomas, J. Tiffany, H. Van Deusen, Dr. and Mrs. A. Vaurie, Miss I. Werner, C. Wright, A. Young, H. Young.

60. Buffalo, N.Y. (centering on Grand Island and including Buffalo and Niagara Falls; open farmland 40%, deciduous woodlots 20%, city parks 5%, Niagara River and Buffalo Harbor 20%, cattail marshes 3%, city, suburban, and factory areas 12%).—Dec. 22. Partly cloudy, sleet, snow squalls; temp. 25° to 35°; wind W to NW, 19-24 m.p.h.; 2-5 inches snow on ground; ponds frozen. Forty-nine observers in 15 parties. Total hours, 105 (70 on foot); total miles, 385 (114 on foot, 27 by boat). Common loon, 6; horned grebe, 6; black-crowned night heron, 1; Canada goose, 2; mallard, 233; black duck, 374; pintail, 9; redhead, 7; canvas-back, 41; greater and lesser scaup, 818; Am. golden-eye, 1432; buffle-head, 30; old-squaw, 23; white-winged

scoter, 4; hooded merganser, 5; Am. merganser, 111; red-breasted merganser, 156; sharp-shinned hawk, 1; Cooper's hawk, 2; red-tailed hawk, 4; rough-legged hawk, 1; bald eagle, 4; marsh hawk, 6; sparrow hawk, 30; ruffed grouse, 19; ring-necked pheasant, 226; Iceland gull, 1; glaucous gull, 2; Kumlien's gull, 1 (J.S., T.L.B.); great black-backed gull, 25; herring gull, 3296; ring-billed gull, 19; Bonaparte's gull, 1176; mourning dove, 2; screech owl, 1; great horned owl, 9; short-eared owl, 2; belted kingfisher, 2; flicker, 1; hairy woodpecker, 7; downy woodpecker, 46; prairie horned lark, 75; blue jay, 8; crow, 168; black-capped chickadee, 346; white-breasted nuthatch, 31; brown creeper, 15; robin, 1; golden-crowned kinglet, 12; starling, 1534; English sparrow, 691; meadowlark, 2; cowbird, 3; cardinal, 12; purple finch, 3; common redpoll, 34; pine siskin, 1; goldfinch, 27; slate-colored junco, 62; tree sparrow, 508; song sparrow, 15; Lapland longspur, 12; snow bunting, 591. **Total,** 64 species; 12,292 individuals.—R. Andrle, C. Beal, C. Bishop and son, T. L. Bourne, W. Brockner, Mr. and Mrs. D. Cameron, R. Drobitz, D. Elberg, R. Facklam, J. Filor, D. Gamble, F. Glick, Mr. and Mrs. A. Heilborn, C. Heilborn, J. Heilborn, A. Hoekstra, I. Hoyer, Mr. and Mrs. Klabunde, N. Keim, W. Koch, S. Knight, P. Lenna, H. Mitchell, L. Murphy, B. Nathan, D. Pause, E. Praemassing, K. Praemassing, F. Rew, W. Rogerson, M. Rosa, J. Savage, E. Seeber, R. Sundell, H. Thorpe, Mr. and Mrs. E. Ulrich, W. Vaughan, A. Van Why, R. Wagner, Mr. and Mrs. W. Wallace, M. Wendling, L. Wendt, E. Windsor (Buffalo Ornithological Society).

61. Cortland, N.Y. (Tioughnioga River, south end of Skaneateles Lake, Gracie Swamp, marl ponds, and waterworks; lakes, ponds, river 10%, cultivated farmland 10%, semiopen country, frequently pastured, with scattered trees, open groves, little patches of woods and thickets of many kinds, little bogs, marshy places, streams and other habitats in small scattered patches 50%, mixed woodland, mostly unpastured and swampy, from young second growth to mature 30%).—Dec. 23; 7:30 a.m. to 5:30 p.m. Cloudy; 7 inches snow on ground; wind S, increasing throughout day, 2-30 m.p.h.; temp. 30° at start and return. Two observers in 2 parties. Total hours, 15 (12 on foot, 3 by car); total miles, 57 (12 on foot, 45 by car). Great blue heron, 1; mallard, 3; black duck, 30; Am. pintail, 2; Am. golden-eye, 12; Am. merganser, 50; red-breasted merganser, 1; ruffed grouse, 1; European partridge, 10; pheasant, 1; herring gull, 82; screech owl, 1; long-eared owl, 1; kingfisher, 2; hairy woodpecker, 3; downy woodpecker, 8; horned lark, 9; blue jay, 14; crow, 8; black-capped chickadee, 71; white-breasted nuthatch, 7; red-breasted nuthatch, 2; brown creeper, 2; winter wren, 1; golden-crowned kinglet, 21; starling, 45; English sparrow, 80; redpoll, 826; pine siskin, 3; junco, 7; tree sparrow, 74; swamp sparrow, 1; song sparrow, 8; snow bunting, 16. **Total,** 34 species; 1403 individuals.—Harold H. Axtell, Rachael C. Axtell.

62. Croton Point, N.Y. (woods 45%, marshes 35%, shore 15%, fields 5%).—Dec. 26. Partly cloudy in a.m.; snowfall from 11 a.m. to 12 m.; clear with a fresh NW wind in p.m.; temp. 25° to 36° to 28°; marshes frozen, but Hudson River open. Six observers together. Total miles, 6 (on foot); total hours, 8¾. Mallard, 5; black duck, 350 (est.); greater scaup, 5; Am. golden-eye, 18; surf scoter, 2; hooded merganser, 17; Am. merganser, 12; red-breasted merganser, 1; Cooper's hawk, 1; bald eagle, 7; pheasant, 1; herring gull, 350 (est.); barn owl, 1; saw-whet owl, 1; hairy woodpecker, 1; downy woodpecker, 2; northern horned lark, 4; crow, 35; black-capped chickadee, 25; white-breasted nuthatch, 2; red-breasted nuthatch, 1; brown creeper, 7; winter wren, 1; golden-crowned kinglet, 10; starling, 400 (est.); English sparrow, 17; red-wing, 7; cardinal, 2; redpoll, 51; pine siskin, 50; goldfinch, 15; slate-colored junco, 24; tree sparrow, 7; white-throated sparrow, 5; song sparrow, 2. **Total,** 35 species; approximately 1439 individuals.—Richard B. Fischer, Douglas Lent, Duncan Mackenzie, Charles Mahnken, David Ridgway, Donald Starbuck.

63. Fort Plain, N.Y. (Mohawk River, Oak Hill, valleys of Otsquago, Otsquene, and Otstungo creeks; mixed deciduous and coniferous woods 59%, river swamps and flats 18%, open farmland 23%).—Dec. 29; 7:30 a.m. to 6:30 p.m. Cloudy, with all-day hail, snow and sleet storm; temp. 11° to 31°; wind SE, 15 m.p.h.; 10 inches snow heavily crusted; floating ice in river, creeks frozen. Total hours, 11 (on foot); total miles, 15 (on foot). Am. merganser, 56; ruffed grouse, 1; pheasant, 1; barred owl, 1; pileated woodpecker, 1; hairy woodpecker, 1; downy woodpecker, 9; horned lark, 1; blue jay, 2; crow, 3; black-capped chickadee, 40; white-breasted nuthatch, 3; brown creeper, 2; starling, 117; English sparrow, 61; red-wing, 1; redpoll, 25; pine siskin, 1; tree sparrow, 14; snow bunting, 1. **Total,** 20 species; 341 individuals. (Seen in area Dec. 27: song sparrow, 2.)—Douglas Ayres, Jr.

64. Geneva, N.Y. (area bounded by Junius on north, east side of Seneca Lake on east, Kashong on south, Gorham on west; open farmland 50%, town suburbs 10%, mixed woods 25%, lake 15%).—Dec. 29. Cloudy, with sleet and rain from 10 a.m. to 3 p.m.; temp. 17° at start, 40° at return; wind SE, 25 m.p.h.; ground covered with snow; water frozen, except Seneca Lake. Fifteen observers in 9 parties (5 observers

watched feeding stations all day.) Total hours, 36½ (24 on foot, 12½ by car); total miles, 84 (11 on foot, 73 by car). Horned grebe, 22; mallard, 7; black duck, 138; redhead, 1200 (est.); ring-necked duck, 6; canvas-back, 1; greater and lesser scaup, 1500 (est.); golden-eye, 31; buffle-head, 15; old-squaw, 2; Am. merganser, 48; red-breasted merganser, 5; Cooper's hawk, 1; red-tailed hawk, 1; sparrow hawk, 3; pheasant, 2; great black-backed gull, 1; herring gull, 92; ring-billed gull, 5; mourning dove, 1; rock dove, 76; screech owl, 1; flicker, 1; hairy woodpecker, 2; downy woodpecker, 13; northern horned lark, 13; prairie horned lark, 40; blue jay, 3; crow, 124; black-capped chickadee, 61; white-breasted nuthatch, 15; red-breasted nuthatch, 1; brown creeper, 5; robin, 1; golden-crowned kinglet, 1; starling, 465; English sparrow, 435; cardinal, 1; redpoll, 103; goldfinch, 3; slate-colored junco, 55; tree sparrow, 84; song sparrow, 1; snow bunting, 1. **Total,** 45 species and subspecies; 4586 individuals.—Loren Ward, Don Sydow, Bernard Devaney, Ethel Murden, Mr. and Mrs. Orla Fanson, Francis Orcutt, Malcolm Lerch, Leora Dryer, Rose Murphy, Mrs. Arthur Laclare, Wm. P. Van Eseltine, John Wellington, Jeanette Snyder, Mrs. Frank McGuire (Eaton Bird Club).

65. Hamburg - Orchard Park - East Aurora, N.Y. (centering on Chestnut Ridge and including Emery Park; open farmland 60%, public parks 10%, suburban areas 5%, deciduous woods 15%, cattail marsh 1%, evergreen woods 4%, small ponds and 1 mile of Lake Erie shore 5%).—Dec. 29; 8:30 a.m. to 4 p.m. Heavy clouds, rain, and sleet; temp. 13° to 40°; wind SW, 25 m.p.h.; 2 inches snow on ground. Twenty-nine observers in 14 parties. Total hours, 65 (38 on foot); total miles, 159 (50 on foot). Am. golden-eye, 18; Am. merganser, 1; Cooper's hawk, 1; marsh hawk, 1; sparrow hawk, 2; ruffed grouse, 2; ring-necked pheasant, 13; Iceland gull, 1 (a white-winged gull in flight, probably this species —A.J.W.); herring gull, 39; hairy woodpecker, 3; downy woodpecker, 18; prairie horned lark, 1; blue jay, 6; crow, 131; black-capped chickadee, 161; white-breasted nuthatch, 12; red-breasted nuthatch, 2; brown creeper, 16; golden-crowned kinglet, 16; cedar waxwing, 26; northern shrike, 1; starling, 595; English sparrow, 571; cowbird, 17; cardinal, 9; pine grosbeak, 15; common redpoll, 60; goldfinch, 9; red crossbill, 1 (seen at 15 ft. with 8x glasses—F.T.T.); white-winged crossbill, 1 (seen at 20 ft. with 6x glasses —D.G.); red-eyed towhee, 1; slate-colored junco, 63; tree sparrow, 101; snow bunting, 825. **Total,** 34 species; 2739 individuals. (Rough-legged hawk and song sparrow seen within 2 days of count date.)—W. Almendinger, Mrs. E. Bacon, Mr. and Mrs. A. C. Brettle, W. W. Brockner, Mr. and Mrs. J. Creighton, Mrs. W. Dugan, D. Elberg, D. Gamble, D. and G. Gregory, Mr. and Mrs. A. Heilborn, C. Knox, G. K. Link, Mr. and Mrs. McShane, H. D. Mitchell, Mrs. F. Rew, H. Thorpe, F. T. Tilley, E. C. Ulrich, R. Wagner, A. Wander, G. Webster, W. Wild, E. J. Windsor, A. J. Wright II (Audubon Society of Buffalo).

66. Jamestown, N.Y. (center of town north to Gerry, east to Poland, south to Riverside, west to Ashville; deciduous woods 35%, pine woods 30%, swampland 14%, fields 14%, streams and rivers 5%, marshes 2%).—Dec. 28. Cloudy with light rain changing to snow in p.m.; strong SW to W wind, 15-25 m.p.h.; ground mostly bare; outlet and rivers full of slush and drift ice from heavy rainfall night before. Ten observers in 5 parties. Total hours, 22; total miles, 81 (63 by car, 18 on foot). Mallard, 2; sharp-shinned hawk, 1; ruffed grouse, 4; pheasant, 17; herring gull, 21; rock dove, 37; mourning dove, 1; downy woodpecker, 4; blue jay, 1; black-capped chickadee, 59; white-breasted nuthatch, 5; red-breasted nuthatch, 2; brown creeper, 5; winter wren, 1; golden-crowned kinglet, 16; starling, 293; English sparrow, 157; cardinal, 2; goldfinch, 24; slate-colored junco, 28; tree sparrow, 89. **Total,** 21 species; 769 individuals. (Seen in area during count week: robin, 1; bronzed grackle, 2 [seen Dec. 24-27 at Frewburg—Sundells]; redpoll, 50 [1 flock]; cedar waxwing, 6; snow bunting, 1.)—C. Beal, G. Bentley, Mr. and Mrs. V. Flyger, A. Hiller, D. Lenna, P. Lenna, R. A. Sundell, R. H. Sundell, A. Van Why.

67. Manhattan Island, N.Y. (Central, Inwood, and Fort Tryon Parks, Riverside, and Harlem River Speedway; water 50%, open deciduous woods 40%, fields 10%).—Dec. 26. Clear except for snow flurries at noon; ground bare; wind SW in a.m., shifting to N; temp. about 30°. Five observers in 4 parties. Total hours, 18 (on foot). Black-crowned night heron, 3; mallard, 88; black duck, 360; Canada goose, 5; pintail, 1; green-winged teal, 7; greater scaup, 1; Am. golden-eye, 2; Am. merganser, 2; red-breasted merganser, 1; sharp-shinned hawk, 1; sparrow hawk, 1; ring-necked pheasant, 5; great black-backed gull, 15; herring gull, 850; ring-billed gull, 4; laughing gull, 2; rock dove, 425; kingfisher, 1; downy woodpecker, 5; blue jay, 5; crow, 1; black-capped chickadee, 46; white-breasted nuthatch, 8; brown creeper, 3; catbird, 1; golden-crowned kinglet, 2; starling, 225; English sparrow, 300; cardinal, 4; purple finch, 2; junco, 90; white-throated sparrow, 84; song sparrow, 32. **Total,** 34 species; 2582 individuals. —Daniel Heller, John Persico, Richard Ryan, Alfred Sutton, John Tiffany.

68. Mount Pleasant, N.Y. (first census in area; from Valhalla to Scarborough via southwestern

portion of Kensico reservoir, Kensico cemetery, Eastview, Pocantico Hills, Sleepy Hollow, and Pocantico Lake; brush-covered and grassy fields 18%, deciduous woodland 35%, residential areas 19%, river and lake shore 21%, evergreen woods 7%).—Dec. 27; 8:30 a.m. to 4:30 p.m. Clear to partly cloudy in a.m., overcast in p.m.; calm in a.m. to S wind in p.m., 0-25 m.p.h.; temp. 15° to 25°; no snow but ground frozen; all fresh water frozen, except Kensico and Tarrytown Lakes. Four observers in 1 party. Total hours, 8 (on foot); total miles, 13½ (on foot). Mallard, 46; black duck, 186; ring-necked duck, 6 (Kensico); greater scaup, 7; golden-eye, 50 (est.); buffle-head, 1; white-winged scoter, 4; Am. merganser, 189 (in Hudson off Scarborough); red-breasted merganser, 13; sharp-shinned hawk, 1; ring-necked pheasant, 3; great black-backed gull, 1; herring gull, 58; laughing gull, 2 (H.B., R.F.); rock dove, 9 (feral); flicker, 1; hairy woodpecker, 4; downy woodpecker, 7; blue jay, 7; crow, 98; black-capped chickadee, 193; white-breasted nuthatch, 4; red-breasted nuthatch, 1; brown creeper, 3; winter wren, 1; robin, 2; bluebird, 14; golden-crowned kinglet, 5; ruby-crowned kinglet, 3 (closely observed with 6x glasses, call notes identified—H.B.); starling, 44; English sparrow, 47; meadowlark, 1; cardinal, 8; goldfinch, 32; slate-colored junco, 36; tree sparrow, 11; white-throated sparrow, 3; song sparrow, 8. **Total,** 38 species; about 1109 individuals.—Herman Bieber, Richard Feuerstein, Arthur Schiffer, Henry Schiffer (members Erasmus Hall H.S. Audubon Club, Brooklyn, N.Y.).

69. Port Chester, N.Y. (Rye and White Plains to Stamford, Conn., Manursing Island, Rye and Kensico lakes, Audubon Nature Center, etc.).—Dec. 22; 6:15 a.m. to 6:15 p.m. Cloudy; temp. 29° to 33°; wind W, 20-30 m.p.h.; ground bare; ponds frozen, lakes open. Sixteen observers in 8 parties. Total hours, 54 (36 on foot); total miles, 188 (42 on foot). Common loon, 4; Holboell's grebe, 2; horned grebe, 7; pied-billed grebe, 1; European cormorant, 4 [no details; regional status unverified, vide Cruickshank's "Birds around New York City"—Ed.]; great blue heron, 24; black-crowned night heron, 16; mute swan, 4; Canada goose, 21; mallard, 120; black duck, 900 (est.); ring-necked duck, 15; greater scaup, 450; Am. golden-eye, 60; buffle-head, 50; old-squaw, 20; white-winged scoter, 380; ruddy duck, 2; hooded merganser, 68; Am. merganser, 65; red-breasted merganser, 68; sharp-shinned hawk, 1; Cooper's hawk, 3; red-tailed hawk, 1; red-shouldered hawk, 1; rough-legged hawk, 1; duck hawk, 1; sparrow hawk, 2; ruffed grouse, 1; pheasant, 7; coot, 4; killdeer, 13; great black-backed gull, 4; herring gull, 2000 (est.); ring-billed gull, 1; rock dove, 55; barn owl, 1; screech owl, 3; great horned owl, 1; long-eared owl, 2; belted kingfisher, 3; flicker, 10; hairy woodpecker, 4; downy woodpecker, 12; horned lark, 25; blue jay, 34; crow, 130; black-capped chickadee, 70; white-breasted nuthatch, 13; brown creeper, 3; winter wren, 1; robin, 3; hermit thrush, 1; bluebird, 45; golden-crowned kinglet, 22; Am. pipit, 6; cedar waxwing, 90; starling, 500 (est.); myrtle warbler, 54; pine warbler, 1 (R.L.B., J.M., M.O., J.H.); English sparrow, 120; cardinal, 2; purple finch, 4; pine siskin, 35; goldfinch, 38; red-eyed towhee, 1; savannah sparrow, 1; junco, 220; tree sparrow, 60; white-throated sparrow, 85; song sparrow, 37; snow bunting, 1. **Total,** 72 species; about 6014 individuals.—Richard L. Burdsall, Stanley W. Bromley, Mrs. Benjamin T. Brooks, Glenn E. Coven, John Holmes, Ernest T. Luhde, John Moxhay, Arthur S. Nyquist, Michael Oboiko, John J. Roemer, Mr. and Mrs. M. Stuart Roesler, P. Cecil Spofford, Richard L. Weaver, Mr. and Mrs. Wm. Bolton Cook.

70. Poughkeepsie, N.Y. (center of city to these points within 13 miles, all east of Hudson River: Camelot, Lake Walton, Crouses Store, Freedom Plains, Pleasant Valley; open farmland 70%, suburbs 10%, deciduous and mixed woodlots 10%, hemlock groves 5%).—Dec. 29; 8 a.m. to 4 p.m. Cloudy, with freezing rain from 10:30 a.m. to 2 p.m.; wind NW, 4-8 m.p.h. until 11 a.m., then calm; temp. 15° to 25°; 1 inch snow, some bare ground; fast streams and river open. Four observers by 2's or together, plus 4 other observers at their residences. Total hours, 10 (on foot); total miles, 8 (on foot). Black duck, 91; goshawk, 1; red-tailed hawk, 3; sparrow hawk, 1; pheasant, 5; herring gull, 20; barred owl, 1; flicker, 1; hairy woodpecker, 6; downy woodpecker, 17; blue jay, 8; crow, 64; black-capped chickadee, 56; white-breasted nuthatch, 14; brown creeper, 10; winter wren, 2; golden-crowned kinglet, 9; cedar waxwing, 12; starling, 44; Cape May warbler, 1 (at feeding station; collected 2 days later—R.S.P.); English sparrow, 62; purple finch, 28; goldfinch, 40; savannah sparrow, 2; slate-colored junco, 127; tree sparrow, 23; white-throated sparrow, 11; song sparrow, 2. **Total,** 28 species; 661 individuals.—R. T. Waterman, R. G. Guernsey, F. L. Gardner, Jr., R. S. Palmer; Dorothy E. Went, Barbara Swain, George Gray, John L. Lane.

71. Rochester, N.Y. (Lake Ontario shore from Braddocks Bay east to Nine Mile Point; east and west shores of Irondequoit Bay, Tryon Park, Highland Park, Mt. Hope Cemetery, Durand Park, Mendon Ponds Park, Reed Road Swamp, Turk Hill, Powdermill Park).—Dec. 22; 7:30 a.m. to 5 p.m. Heavily overcast, with occasional light snow and 1 hour of sunlight at noon; 2 inches snow on ground; moderate wind WSW; ponds mostly frozen; temp. 28° at start, 33° at

return. Twenty-three observers in 9 parties. Total hours, 50 (on foot); total miles, 56 (on foot). Common loon, 3; red-throated loon, 1; Holboell's grebe, 1; double-crested cormorant, 1; mallard, 110; black duck, 400 (est.); redhead, 1; ring-necked duck, 1; canvas-back, 1; greater scaup, 300 (est.); lesser scaup, 50; Am. golden-eye, 50; buffle-head, 3; old-squaw, 15; white-winged scoter, 2; ruddy duck, 2; Am. merganser, 9; red-breasted merganser, 5; Cooper's hawk, 9; red-tailed hawk, 8; marsh hawk, 4; sparrow hawk, 9; ring-necked pheasant, 60; coot, 4; black-backed gull, 15; herring gull, 700 (est.); ring-billed gull, 300 (est.); Bonaparte's gull, 200 (est.); rock dove, 25; mourning dove, 10; flicker, 1; hairy woodpecker, 1; downy woodpecker, 8; northern horned lark, 1; prairie horned lark, 7; blue jay, 4; crow, 450 (est.); chickadee, 50+; white-breasted nuthatch, 8; brown creeper, 6; winter wren, 1; robin, 2; golden-crowned kinglet, 5; cedar waxwing, 45; starling, 700+; myrtle warbler, 6 (observed at close range, feeding on bayberries—J.T., A.K., P.W., R.B.); blackburnian warbler, 1 (in a wooded swampy area among "deadfalls" and alder shrubs; notes made at time of observation: "yellow throat and posterior cheek patch and eye stripe; white belly streaked with black; back and tail grayish brown, streaked; no yellow rump; observed for 10 minutes at 15-40 ft. with 7x glasses"; field marks carefully compared with plates in "Audubon Bird Guide"—R. Hartwell); yellow-throat, 1 (observed at 10-20 ft. through 6x glasses—E.S.); English sparrow, 400 (est.); red-wing, 4; rusty blackbird, 1; cardinal, 4 (resident); purple finch, 1; common redpoll, 500+; greater redpoll, 50; hoary redpoll, 10 (the greater and hoary redpolls observed through 40x telescope in flock of 400 common redpolls; comparative study of the types readily made, as well as ample reference to texts on the spot—J.T., A.K., P.W., R.B.); pine siskin, 14; goldfinch, 12; slate-colored junco, 130; tree sparrow, 100 (est.); swamp sparrow, 2; song sparrow, 11; snow bunting, 28. **Total,** 63 species and subspecies; about 4863 individuals.—James Barlow, Robert Beikirch, Dirck Benson, Donald Bieber, Albert Bussewitz, Robert Dolan, William Edson, Josephine Edson, Robert Erwin, Reginald Hartwell, Alan Klonick, Walter Listman, William Mikonis, Howard Miller, Richard O'Hara, Fred Raetz, Oscar Schaefer, Elmer Siebert, Donald Spitz, Leo Tanghe, Joseph Taylor, Paul Wentworth, Remsen Brinkerhoff (Genesee Ornithological Society).

72. Schenectady, N.Y. (same overall area as in 1930 and subsequent counts, but differing from 1945 area by reinclusion of Albany-Norman's Kill section, and omission of Central Park; area centered about 5 miles due south of Schenectady; urban and suburban 5%, farmyards 5%, open farmland 40%, light deciduous woods 20%, mixed deciduous and evergreen woods 10%, brush hillsides and ravines 10%, cattail marshes 10%).—Dec. 22; 7 a.m. to 4:30 p.m. Cloudy, snow flurries, occasional sun; temp. 28° to 36°; wind W, 5-35 m.p.h.; ground covered with 6-8 inches old snow; minimum of open water. Twenty-nine observers in 8 parties, plus urban and suburban feeding-station records. Total hours, 50 (37 on foot, 13 by car); total miles, 214 (51 on foot, 163 by car). Black duck, 17; goshawk, 1; Cooper's hawk, 1; red-tailed hawk, 2; marsh hawk, 3; sparrow hawk, 2; ruffed grouse, 3; pheasant, 6; herring gull, 10; mourning dove, 6; kingfisher, 1; hairy woodpecker, 8; downy woodpecker, 38; phoebe, 1 (B.S.—at close range along steep brushy bank of partially open stream, tail flicking noted); horned lark (sp.?), 1; blue jay, 79; crow, 427; black-capped chickadee, 205; white-breasted nuthatch, 39; red-breasted nuthatch, 1; brown creeper, 14; golden-crowned kinglet, 8; starling, 894; English sparrow, 219; purple finch, 1; common redpoll, 579 (numerous active flocks); greater redpoll, 1 (R.S., B.S., G.M.A.)—studied at 20 ft. with 8x binoculars in flock of common redpolls feeding in road; larger size and darker coloration readily compared); pine siskin, 16; goldfinch, 82; slate-colored junco, 116; tree sparrow, 308; song sparrow, 8; snow bunting, 8. **Total,** 33 species and subspecies; 3105 individuals. (Carolina wren seen at feeding station Dec. 23-24—V.J.S.)—Mr. and Mrs. George H. Bainbridge, Pauline E. Baker, Guy Bartlett, William G. Bartlett, Mrs. Laura Beck, Mrs. Walter E. Blowney, Mrs. R. M. Brockway, Mrs. W. Lawrence Butler, Frank Freese, Sr., Mr. and Mrs. Esly Hallenbeck, Alice Holmes, B. D. Miller, Mr. and Mrs. Chester N. Moore, Dorothy Sawyer, Minnie B. Scotland, Benton Seguin, Vincent J. Schaefer, Rudolph Stone, Mrs. Lillian C. Stoner, Nelle G. Van Vorst, Mr. and Mrs. John L. Voght, Lt. (jg) Franklin H. West, Glen Wilson, James Zell, G. M. Andrews (Schenectady Bird Club).

73. Staten Island, N.Y. (general coverage).—Dec. 22; 7 a.m. to 5 p.m. Clear to partly cloudy; ground bare, frozen in places; wind NW, 35 m.p.h.; temp. 30° at start, rising to 37°. Total miles, about 100 (40 on foot, 60 by car). Horned grebe, 15; greater scaup, 7000 (est.); golden-eye, 37; buffle-head, 93; old-squaw, 61; white-winged scoter, 2; red-breasted merganser, 1; Cooper's hawk, 1; marsh hawk, 3; sparrow hawk, 7; ring-necked pheasant, 8; clapper rail, 1; glaucous gull, 1; great black-backed gull, 12; herring gull, 15,353 (partly est.); ring-billed gull, 2; Bonaparte's gull, 26; mourning dove, 3; flicker 6; downy woodpecker, 4; horned lark, 3; blue jay, 14; crow, 179; black-capped chickadee, 9; white-breasted nuthatch, 2; winter wren, 1; robin, 2; bluebird, 1; golden-crowned kinglet,

12; starling, 1253 (partly est.); myrtle warbler, 18; English sparrow, 100 (est).; meadowlark, 25; rusty blackbird, 1; grackle, 3; cardinal, 25; goldfinch, 6; slate-colored junco, 88; tree sparrow, 38; field sparrow, 1; white-throated sparrow, 54; fox sparrow, 1; song sparrow, 17. **Total,** 43 species; about 24,489 individuals.—Carlton Beil, Howard Cleaves, Lee A. Ellison, Henry F. Flamm, Charles A. Pearson, Casimir Redjives, Charles B. and Mildred D. Schaughency, Miriam C. Stryker, Mathilde Weingartner.

74. Watertown, N.Y. (a circle not exceeding a 7-mile radius, with Public Square the center; deciduous woodland 21%, country roads 9%, open farmland 9%, streets 5%, wooded river banks 31%, parks 11%, evergreen swamps 14%, plus 5 feeding stations).—Dec. 29. Overcast; temp. 4° to 20°; driving snow, sleet; strong wind, 40 m.p.h.; 18 inches crusted snow. Thirty-seven observers, 10 in pairs, the rest singly. Total party hours, 36 (on foot); total party miles, 59¾ (on foot, snowshoes, or skis; car mileage getting to assigned territory not counted). Black duck, 2; ruffed grouse, 2; ring-necked pheasant, 14; herring gull, 64; rock dove, 31; screech owl, 1; great horned owl, 1; barred owl, 1; hairy woodpecker, 5; downy woodpecker, 4; northern horned lark, 25; blue jay, 13; black-capped chickadee, 58; white-breasted nuthatch, 2; red-breasted nuthatch, 2; starling, 316; English sparrow, 365; meadowlark, 3; cardinal, 2; purple finch, 3; common redpoll, 259; goldfinch, 31; slate-colored junco, 3; tree sparrow, 107; snow bunting, 350. **Total,** 25 species; 1664 individuals.—Mrs. Harold Besha, Mr. and Mrs. Paul Biggers, David Burns, Mr. and Mrs. Joseph Blake, James Common, Frank and Dorothy Clinch, Wm. Engler, Harold Evans, L. Fitsimmons, Mrs. Chas. Getman, Lucille Grant, Mrs. Chas. Hart, M. Ingerson, Mr. and Mrs. L. H. Kenfield, Mr. and Mrs. Bernard McCord, Gail Millard, Mr. and Mrs. Chas. F. Nichols, Robert and Henry Parker, Erma Schell, Mr. and Mrs. Ford O. Rundell, Orla Severance, Wm. Schuster, Sutherland Simpson, Mrs. John Stone, Austin A. Stevens, Naughton Taylor, Mr. and Mrs. Howard Vrooman, Mrs. James A. Common.

75. Barnegat, N.J. (approximately same area as in previous counts; salt marsh 40%, bay and beach 40%, upland 20%).—Dec. 29; 5:30 a.m. to 5:45 p.m. Overcast, with rain squalls in morning; temp. 35° to 45° F.; wind NE, 15-25 m.p.h.; bay open; ground bare. Fifteen observers in 5 parties. Boat used in bay north of causeway; no ocean boat. Total miles, 191 (31 on foot, 10 by boat, 150 by car); total hours, 55 (41 on foot, 4 in boat, 10 in car). Common loon, 1; red-throated loon, 6; Holboell's grebe, 1; horned grebe, 40; double-crested cormorant, 5; great blue heron, 17; Canada goose, 3; Am. brant, 1600 (est.); mallard, 10; black duck, 700 (est.); blue-winged teal, 1 (rare winter record); scaup, (sp.?), 75; golden-eye, 260; buffle-head, 200 (est.); old-squaw, 175; white-winged scoter, 4; surf scoter, 5; Am. scoter, 7; Am. merganser, 45; red-breasted merganser, 225; sharp-shinned hawk, 2; rough-legged hawk, 6; marsh hawk, 13; sparrow hawk, 1; bob-white, 2; semipalmated plover, 3; killdeer, 6; black-bellied plover, 8; knot, 25; purple sandpiper, 2; red-backed sandpiper, 600 (est.); semipalmated sandpiper, 2; sanderling, 10; phalarope (red?), 50 [no details —Ed.]; great black-backed gull, 115; herring gull, 2200 (est.); ring-billed gull, 80; Caspian tern, 1 (at close range—A.P., L.W.); rock dove, 11; mourning dove, 30; great horned owl, 1; snowy owl, 1; flicker, 4; downy woodpecker, 10; horned lark, 175; blue jay, 16; raven, 10; crow, 80; black-capped chickadee, 10; Carolina chickadee, 19; tufted titmouse, 14; red-breasted nuthatch, 3; Carolina wren, 3; short-billed marsh wren, 1; catbird, 3; robin, 430; hermit thrush, 17; golden-crowned kinglet, 13; starling, 475; myrtle warbler, 750 (est.); palm warbler, 1; English sparrow, 125; meadowlark, 25; red-wing, 50; rusty blackbird, 1; cowbird, 1; cardinal, 14; redpoll, 1; pine siskin, 700 (est.); goldfinch, 225; Ipswich sparrow, 6; savannah sparrow, 6; sharp-tailed sparrow, 12; slate-colored junco, 64; tree sparrow, 120; field sparrow, 26; white-throated sparrow, 95; fox sparrow, 5; swamp sparrow, 3; song sparrow, 35; Lapland longspur, 4; snow bunting, 50. **Total,** 82 species; about 10,151 individuals. (Seen Dec. 28: turkey vulture, 1; red-tailed hawk, 1.)—H. Bennett, I. Black, J. Fechtner, C. Hetzel, G. Kelly, D. Kunkle, N. Niosi, A. and R. Peterson, D. Roche, L. Sandford, H. D. and H. M. Van Deusen, L. Walsh, Catherine Wood (members and guests Urner Ornithological Club).

[Another count covering much of the same territory was made on Dec. 27 by Doris H. and J. Russell Sprow, who recorded a total of 44 species and about 1843 individuals. Additional species listed by this group were: gannet, 3; pintail, 300; ring-necked duck, 4; ruddy duck, 3; hooded merganser, 3; purple finch, 1.—Ed.]

76. Boonton, N.J. (an area not exceeding a 15-mile diameter with Troy Hills the center; deciduous woodland 30%, open marsh 20%, wooded swamp 30%, pasture and farmland 15%, miscellaneous 15%).—Dec. 22; 6 a.m. to 6 p.m. Clear; cumulous clouds; visibility excellent; reservoir open, lakes and ponds frozen, rivers open; water levels below normal; ground thawing and marshes open; light snow blanket melting; wind W, maximum velocity 33 m.p.h.; temp. 32° to 35°. Twenty observers in 8 parties. Total hours afield, 80 (60 on foot, 15 by car, 5 by boat); total party miles, 160 (60 on foot, 90 by car, 10 by boat). Horned grebe, 1; mute swan, 2; Canada goose, 1; mallard, 40; black duck, 280;

baldpate, 65; pintail, 15; green-winged teal, 8; blue-winged teal, 1 [no details—Ed.]; wood duck, 1; redhead, 11; ring-necked duck, 150; canvas-back, 7; greater and lesser scaup, 20 (both species identified satisfactorily with 20x telescope—J.L.E.); golden-eye, 15; buffle-head, 5; ruddy duck, 30; hooded merganser, 25; Am. merganser, 93; sharp-shinned hawk, 3; Cooper's hawk, 1; red-tailed hawk, 8; red-shouldered hawk, 5; marsh hawk, 3; sparrow hawk, 8; ruffed grouse, 1; pheasant, 1; Virginia rail, 1; coot, 125; killdeer, 7; herring gull, 70; ring-billed gull, 1; mourning dove, 1; screech owl, 4; great horned owl, 1; barred owl, 2; kingfisher, 3; flicker, 8; pileated woodpecker, 1; red-headed woodpecker, 2; hairy woodpecker, 3; downy woodpecker, 39; horned lark, 55; blue jay, 174; crow, 158; black-capped chickadee, 318; tufted titmouse, 91; white-breasted nuthatch, 61; red-breasted nuthatch, 1; brown creeper, 34; winter wren, 2; robin, 8; bluebird, 26; golden-crowned kinglet, 51; ruby-crowned kinglet, 1; pipit, 6; cedar waxwing, 16; northern shrike, 1; starling, 1741; myrtle warbler, 7; English sparrow, 224; meadowlark, 1; red-wing, 59; rusty blackbird, 35; grackle, 4; cardinal, 6; purple finch, 44; pine siskin, 16; goldfinch, 61; junco, 482; tree sparrow, 680; chipping sparrow, 1; field sparrow, 1; white-throated sparrow, 157; fox sparrow, 1; swamp sparrow, 29; song sparrow, 111; snow bunting, 10. **Total,** 79 species; 5741 individuals. —G. Ajello, L. Ajello, C. D. Brown, R. Burkhart, T. Butler, H. V. Coes, J. L. Edwards, A. E. Eynon, R. Frohling, R. Hagar, C. Hetzel, D. Kunkle, J. Mann, R. Murray, N. Niosi, A. Peterson, L. Sandford, D. Schaeffer, R. Thorsell, F. P. Wolfarth (Urner Ornithological Club).

77. Cape May, N.J. (7½-mile radius from Rio Grande, Cape May County; salt marsh 15%, woodland 15%, cultivated land 15%, sand beach 5%, ocean and bay 50%).—Dec. 29. Overcast, with rain in a.m.; temp. 46° at start, 56° at return; wind SE, 10-15 m.p.h. Sixty-three observers in 12 parties. Total hours, 476 (325 on foot, 139 by car, 12 by boat); total miles, 1303 (505 on foot, 750 by car, 48 by boat). Common loon, 34; red-throated loon, 71; horned grebe, 8; pied-billed grebe, 2; gannet, 7; double-crested cormorant, 13; great blue heron, 83; Am. egret, 1; little blue heron, 10 (imm.); black-crowned night heron, 54; Am. bittern, 4; Canada goose, 21; brant, 350; mallard, 5; black duck, 2034; blue-winged teal, 1 [no details—Ed.]; wood duck, 1; ring-necked duck, 6; canvas-back, 1; scaup, 105; golden-eye, 176; buffle-head, 52; old-squaw, 362; white-winged scoter, 213; surf scoter, 81; Am. scoter, 56; hooded merganser, 44; Am. merganser, 8; red-breasted merganser, 173; turkey vulture, 559; sharp-shinned hawk, 7; Cooper's hawk, 4; red-tailed hawk, 8; red-shouldered hawk, 2; rough-legged hawk, 1; bald eagle, 8; marsh hawk, 47; sparrow hawk, 12; bob-white, 44; pheasant, 2; clapper rail, 2; killdeer, 70; black-bellied plover, 29; woodcock, 1; Wilson's snipe, 2; greater yellow-legs, 4; purple sandpiper, 13; red-backed sandpiper, 3674; sanderling, 217; great black-backed gull, 92; herring gull, 3000 (est.); ring-billed gull, 265; Bonaparte's gull, 348; Caspian tern, 1 (P. Street, Q. Kramer, W. Lukens); black skimmer, 1 [no details—Ed.]; mourning dove, 30; barn owl, 1 (freshly killed); screech owl, 1; great horned owl, 2; short-eared owl, 1; belted kingfisher, 10; flicker, 39; hairy woodpecker, 11; downy woodpecker, 33; horned lark, 224; tree swallow, 13; blue jay, 22; crow, 2062; fish crow, 55; Carolina chickadee, 126; tufted titmouse, 45; white-breasted nuthatch, 1; red-breasted nuthatch, 2; brown creeper, 6; winter wren, 6; Carolina wren, 45; short-billed marsh wren, 1; mockingbird, 4; catbird, 11; brown thrasher, 5; robin, 249; wood thrush, 1 (E. Wildman, M. Webster) [no further details that would help to substantiate this extraordinary record—Ed.]; hermit thrush, 32; bluebird, 46; golden-crowned kinglet, 21; ruby-crowned kinglet, 5; Am. pipit, 223; cedar waxwing, 58; migrant shrike, 1; starling, 3625; myrtle warbler, 6620; western palm warbler, 2; English sparrow, 673; meadowlark, 278; red-wing, 307; rusty blackbird, 7; purple grackle, 13; cowbird, 315; cardinal, 158; dickcissel, 1 (seen at close range in farmyard with flock of English sparrows—J. Jacobs, L. Corn, D. Batezel, I. Zeidman); purple finch, 6; pine siskin, 429; goldfinch, 267; towhee, 20; Ipswich sparrow, 7; savannah sparrow, 33; sharp-tailed sparrow, 9; seaside sparrow, 3; vesper sparrow, 2; slate-colored junco, 413; tree sparrow, 174; field sparrow, 30; white-throated sparrow, 984; fox sparrow, 22; swamp sparrow, 9; song sparrow, 245; snow bunting, 31. **Total,** 117 species; approximately 30,464 individuals.—P. Street, Q. Kramer, H. Brown, C. Wonderly, N. McDonald, M. Robinson, P. Livingston, J. Sparmaker, R. Twining, D. Whitten, H. Thompson, J. Wilson, E. Choate, A. Zaid, R. Reeves, S. Schiff, C. Dyer, J. Jacobs, I. Zeidman, L. Corn, D. Batezel, W. Middleton, D. McIntosh, E. Manners, W. Fries, J. Wright III, J. Wright IV, R. Haines, E. Ward, P. Marvin, J. B. Austin, J. H. Austin, E. Weyl, C. Ross, L. Jones, Jr., E. Wildman, N. Webster, J. Cadbury, C. Wurster, W. Corson, J. McIlvain, J. Potter, E. Marshall, E. Wayne Marshall, R. Miller, E. Archer, M. Linton, F. Colwell, A. Conway, A. Crawford, Jr., H. Houston, A. Nicholson, Jr., C. Reahan, J. Siddall, W. Whitnorth, P. Martin, W. Heed, T. Morgan, E. Reimann, C. Collopy, W. Lukens, W. Sheldon, D. Coman (Delaware Valley Ornithological Club).

78. Elizabeth, N.J. (Newark Bay across Newark meadows and North Elizabeth to Keans Woods; salt meadows 20%, bay front 35%,

city dumps 5%, city suburbs 15%, scrubby fields 10%, deciduous woods 15%).—Dec. 27; dawn to dusk. Fair in a.m., becoming cloudy in p.m.; no wind; temp. 20° to 30°; fresh water frozen. Three observers in 1 party. Total hours, 10½; total miles, 10 (on foot). Black duck, 8; scaup, 250 (est.); golden-eye, 42; Am. merganser, 16; red-tailed hawk, 1; marsh hawk, 2; sparrow hawk, 3; herring gull, 500 (est.); rock dove, 15; downy woodpecker, 2; northern horned lark, 23; blue jay, 3; crow, 2; black-capped chickadee, 5; tufted titmouse, 6; white-breasted nuthatch, 1; starling, 350 (partly est.); English sparrow, 47; red-wing, 70; cardinal, 8; goldfinch, 25; slate-colored junco, 79; tree sparrow, 54; white-throated sparrow, 6; song sparrow, 27. **Total,** 25 species; about 1545 individuals.—E. S. White, Jack Wolfe, John Crowell.

79. Great Swamp—Watchung Ridges, N.J. (7½-mile radius from Chatham; dry deciduous woods 50%, fields 25%, wet deciduous woods 10%, suburban areas 10%, evergreen woods 5%). —Dec. 29; 7 a.m. to 4 p.m. Sleet falling the entire day; temp. 29° at start, 25° at return; wind NE, 7-12 m.p.h.; ground covered with thin coat of sleet; ponds and streams frozen. Twenty-two observers in 7 parties. Total party hours, 32; total party miles, 58 (43 on foot, 15 by car). Mallard, 3; black duck, 45; sharp-shinned hawk, 1; Cooper's hawk, 1; red-shouldered hawk, 1; ruffed grouse, 4; herring gull, 4; rock dove, 8; screech owl, 1; great horned owl, 3; flicker, 6; yellow-bellied sapsucker, 2; hairy woodpecker, 13; downy woodpecker, 37; blue jay, 45; crow, 331; black-capped chickadee, 104; tufted titmouse, 33; white-breasted nuthatch, 22; brown creeper, 15; winter wren, 3; Carolina wren, 1; robin, 43; hermit thrush, 13; bluebird, 17; golden-crowned kinglet, 62; cedar waxwing, 8; starling, 204; myrtle warbler, 33; English sparrow, 75; cowbird, 1; cardinal, 20; purple finch, 21; pine siskin, 10; goldfinch, 35; red-eyed towhee, 1; slate-colored junco, 218; tree sparrow, 88; field sparrow, 36; white-throated sparrow, 89; swamp sparrow, 1; song sparrow, 60. **Total,** 42 species; about 1718 individuals.—Frank Bartel, Gilbert Cant, Robert Conn, David Fables, Paul Shubeck and Glen Woolfenden (members Urner Ornithological Club); E. L. Chalif, Frederic Colie, G. G. Daniels, G. Davenport, Mrs. A. Dillman, J. D. Northwood, Dudley Ross, Mr. and Mrs. Schnitzer, Mr. and Mrs. Shauency, R. F. Smith, Mrs. C. B. Stoner, Elsie Weig, Lois Wenman, Mrs. Wildon (members New Jersey Audubon Society).

80. Lakehurst, N.J. (Point Pleasant to Toms River, Lakehurst and Lakewood; pine woods 50%, deciduous woods 20%, cultivated land 10%, cedar swamps 5%, sand beach 5%, salt marsh 5%, towns 5%).—Dec. 26; 9 a.m. to 5 p.m. Clear in a.m., cloudy in p.m.; temp. 29° to 32° F.; wind W, 15-30 m.p.h.; ground bare; ponds frozen, streams open. Five observers in 2 parties. Total party hours, 15; total party miles, 115 (100 by car, 15 on foot). Horned grebe, 1; gannet, 3; double-crested cormorant, 1; Canada goose, 400 (est.); mallard, 20; black duck, 45; baldpate, 16; shoveller, 3; scaup, 24; golden-eye, 17; bufflehead, 24; Am. scoter, 1; red-breasted merganser, 10; sharp-shinned hawk, 1; Cooper's hawk, 2; sparrow hawk, 1; coot, 4; killdeer, 2; great black-backed gull, 50; herring gull, 1300 (est.); ring-billed gull, 17; Bonaparte's gull, 2; rock dove, 30 (feral); northern horned lark, 1; blue jay, 8; crow, 6; Carolina chickadee, 12; brown creeper, 1; golden-crowned kinglet, 30; robin, 80; starling, 400 (est.); myrtle warbler, 17; English sparrow, 55; cowbird, 3; cardinal, 1; pine siskin, 17; goldfinch, 25; savannah sparrow, 1; slate-colored junco, 13; tree sparrow, 26; swamp sparrow, 1. **Total,** 41 species; about 2671 individuals. —David Fables, Paul Shubeck, Carol Stevens, Glen and Lester Woolfenden.

81. Long Branch, N.J. (Oceanport to Wreck Pond; residential areas 15%, beach-front 30%, bushy fields 10%, bays and ponds 20%, farmlands 10%, woods 15%).—Dec. 22; 6 a.m. to 5 p.m. Mostly clear; temp. 34° at start, 35° at return; wind W, increasing to 30 or more m.p.h. in p.m.; no snow; ponds open. Eight observers in 4 parties. Total hours afield, 40 (25 on foot); total miles, 100 (75 by car, 25 on foot). Common loon, 1; horned grebe, 1; pied-billed grebe, 1; gannet, 1; double-crested cormorant, 3; great blue heron, 3; snow goose, 1 (here since Nov. 23); mallard, 75; black duck, 470; European widgeon, 1; baldpate, 130; pintail, 2; redhead, 1; ring-necked duck, 6; canvas-back, 1; scaup, 200 (est.); Am. golden-eye, 1; bufflehead, 1; old-squaw, 2; white-winged scoter, 1; ruddy duck, 6; Am. merganser, 10; red-breasted merganser, 27; Cooper's hawk, 2; bald eagle, 1 (H.B.); marsh hawk, 1; sparrow hawk, 8; bob-white, 5; pheasant, 1; coot, 125; killdeer, 10; Wilson's snipe, 1; great black-backed gull, 320 (est.); herring gull, 1500 (est).; ring-billed gull, 16; laughing gull, 1; Bonaparte's gull, 350 (est.); razor-billed auk, 1 (I.H.B.); mourning dove, 12; screech owl, 1 (dead, picked up still limp, at 8:30 a.m.); kingfisher, 3; flicker, 15; hairy woodpecker, 2; downy woodpecker, 10; blue jay, 9; crow, 200 (est.); Carolina chickadee, 90; titmouse, 40; red-breasted nuthatch, 1; brown creeper, 6; Carolina wren, 3; mockingbird, 1; robin, 43; bluebird, 17; golden-crowned kinglet, 10; cedar waxwing, 100 (est.); starling, 900 (est.); myrtle warbler, 300 (est.); English sparrow, 110; meadowlark, 8; red-wing, 335; rusty blackbird, 1; grackle, 1315 (est.); cowbird, 420; cardinal, 7; pine siskin, 145; goldfinch, 30; savannah sparrow, 4; junco, 90; tree sparrow,

18; field sparrow, 19; white-throated sparrow, 120; swamp sparrow, 3; song sparrow, 14. **Total,** 74 species; approximately 7689 individuals.—Henry Bennett, Irving H. Black, David Downs, John S. Gorham, Kenneth Gosner, Mrs. Ethel Woolfenden, Glen Woolfenden, George M. Seeley (members and guests Urner Ornithological Club).

82. Mt. Holly, N.J. (Hainesport, Lumberton, Burlington, and Mt. Holly).—Dec. 22; 6:30 a.m. to 4 p.m. Cloudy; temp. 28° at start. Four observers mostly in 2 parties. Pied-billed grebe, 1; mallard, 10; black duck, 2000 (est.); pintail, 350 (est.); ruddy duck, 3; Am. merganser, 2; turkey vulture, 8; red-tailed hawk, 1; marsh hawk, 3; sparrow hawk, 13; killdeer, 1; sandpiper (sp.?), 3; herring gull, 42; ring-billed gull, 3; mourning dove, 2; flicker, 4; hairy woodpecker, 3; downy woodpecker, 13; horned lark, 27; blue jay, 7; crow, 3000 (est.); fish crow, 2; black-capped chickadee, 26; tufted titmouse, 15; white-breasted nuthatch, 7; red-breasted nuthatch, 1; brown creeper, 9; Carolina wren, 2; robin, 70; hermit thrush, 1; bluebird, 8; golden-crowned kinglet, 51; cedar waxwing, 35; starling, 300 (est.); myrtle warbler, 100 (est.); English sparrow, 100 (est.); meadowlark, 25; rusty blackbird, 72; purple grackle, 3; cowbird, 1; cardinal, 11; goldfinch, 3; slate-colored junco, 180; tree sparrow, 9; white-throated sparrow, 96; song sparrow, 1. **Total,** 46 species; about 6624 individuals.—Mrs. Doris Sprow, J. Russell Sprow, Elmer E. Highley, Nelson D. W. Pumyea.

83. Princeton, N.J. (within an 8½-mile diameter; villages, estates, farms, lowland woods, upland woods, and red cedar groves).—Dec. 27; dawn until after dark. Fine to cloudy; temp. 15° at 7 a.m., max. 30°; wind light SE, calm until 10:45 a.m. and after sunset; ground bare, lightly frozen; lake, ponds, marshes and quiet parts of streams frozen. Thirteen observers in 7 parties. Total hours, 43½ (all but ½ hour on foot); total miles, 57 (43½ on foot, 13½ by car); plus all day at a home feeding station. Canada goose, 54 (flock); mallard, 186; black duck, 14; baldpate, 3; green-winged teal, 1; sharp-shinned hawk, 2; Cooper's hawk, 3; red-tailed hawk, 3; marsh hawk, 2; pigeon hawk, 1 (small falcon with no reddish above—Bloor, Mott); sparrow hawk, 8; pheasant, 1; herring gull, 1; mourning dove, 110 (flock of 100); saw-whet owl, 1 (dead); belted kingfisher, 2; flicker, 34; sapsucker, 3; hairy woodpecker, 11; downy woodpecker, 83; horned lark, 100; blue jay, 50; crow, 320; fish crow, 2; chickadee, 63 (at least 40 black-capped and 5 Carolina); tufted titmouse, 71; white-breasted nuthatch, 26; brown creeper, 7; winter wren, 2; Carolina wren, 4; catbird, 1; robin, 14; hermit thrush, 7; bluebird, 56; golden-crowned kinglet, 26; ruby-crowned kinglet, 2; cedar waxwing, 14; starling, 680; myrtle warbler, 98; English sparrow, 290; meadowlark, 7; red-wing, 16; rusty blackbird, 1; grackle, 37; cardinal, 33; purple finch, 107; pine siskin, 2; goldfinch, 60; towhee, 1 (♂); junco, 509; tree sparrow, 251; field sparrow, 2; white-throated sparrow, 426; swamp sparrow, 4; song sparrow, 115. **Total,** 55 species; about 3927 individuals. (Dec. 28: red-shouldered hawk, 1.)—E. D. Bloor, Jr., D. M. Compton, F. W. Loetscher, Jr., A. D. and J. K. Meritt, Peter Mott, Theodora Nelson, Beverly Ridgely, C. H., M. S., and W. S. Rogers, A. L. Shinn, J. K. Wallis.

84. Raritan Estuary, N.J. (same area as in previous years; salt meadows 15%, fresh-water swamp 15%, swampy woods 20%, deciduous woodland 10%, pine woodland 5%, open farmland 10%, suburbs 25%).—Dec. 23; 5:30 a.m. to 5 p.m. Clear, becoming overcast; wind W, 5-12 m.p.h.; temp. 31° to 42° F.; ground clear, surface thawing; cat-ice on still water. Six observers in 4 parties. Total hours, 39; total miles, 31 (on foot). Mallard (feral), 2; black duck, 13; wood duck, 1; greater scaup, 20; Am. goldeneye, 42; buffle-head, 6; old-squaw, 90; white-winged scoter, 1; Cooper's hawk, 1; red-tailed hawk, 1; red-shouldered hawk, 1; rough-legged hawk, 2; marsh hawk, 9; sparrow hawk, 3; killdeer, 5; black-backed gull, 19; herring gull, 470; ring-billed gull, 7; Bonaparte's gull, 11; rock dove (feral), 13; mourning dove, 1; kingfisher, 1; flicker, 4; hairy woodpecker, 3; downy woodpecker, 18; northern horned lark, 56; blue jay, 80; crow, 313 in daytime (3500 est. in roost); black-capped chickadee, 29; Carolina chickadee, 4; titmouse, 32; white-breasted nuthatch, 18; robin, 12; bluebird, 3; golden-crowned kinglet, 9; ruby-crowned kinglet, 1; pipit, 1; cedar waxwing, 1; starling, 3315 in daytime (140,000 est. in roost); myrtle warbler, 148; English sparrow, 530; red-wing, 410 in daytime (105,000 est. in roost); purple grackle, 2 in daytime; bronzed grackle, 11 in daytime; grackle (both subsp.), 70,000 est. in roost; cowbird, 13 in daytime (35,000 est. in roost); cardinal, 8; purple finch, 14; siskin, 9; goldfinch, 18; red-eyed towhee, 1; sharp-tailed sparrow, 2; slate-colored junco, 148; tree sparrow, 153; white-throated sparrow, 20; fox sparrow, 2; swamp sparrow, 5; song sparrow, 25. **Total,** 57 species and subspecies; about 355,573 individuals.—Frank Bartel, Gilbert Cant, Robert Conn, David Fables, John T. S. Hunn, Glen Woolfenden (Urner Ornithological Club).

85. Ridgewood, N.J. (same area as in previous years, from Ramsey south to Radburn and east to Hudson River; open fields and farmland 35%, deciduous woodland 30%, hemlock woods 10%, fresh-water streams and marsh 15%, brush 7%, feeding stations 3%).—Dec. 28; 8 a.m. to 4:30 p.m. Cloudy, clearing later, heavy glaze on roads;

temp. 30° to 45° F.; no wind. Thirty-eight observers in 18 parties. Total party hours, 69½; total party miles on foot, 63. Pied-billed grebe, 2; Canada goose, 3; mallard, 6; black duck, 225; green-winged teal, 12; Am. golden-eye, 25; surf scoter, 2; Am. merganser, 250; sharp-shinned hawk, 2; Cooper's hawk, 2; red-tailed hawk, 2; red-shouldered hawk, 4; bald eagle, 3; duck hawk, 1; sparrow hawk, 8; pheasant, 7; killdeer, 4; black-backed gull, 20; herring gull, 442; mourning dove, 62; belted kingfisher, 2; flicker, 14; hairy woodpecker, 11; downy woodpecker, 62; horned lark, 25; blue jay, 322; crow, 124; black-capped chickadee, 394; tufted titmouse, 95; white-breasted nuthatch, 100; red-breasted nuthatch, 3; brown creeper, 30; winter wren, 1; Carolina wren, 5; brown thrasher, 1; robin, 14; hermit thrush, 1; bluebird, 58; golden-crowned kinglet, 45; ruby-crowned kinglet, 4; cedar waxwing, 9; starling, 2738; myrtle warbler, 81; English sparrow, 657; Baltimore oriole, 1 (this bird, a female, appeared at a feeding station on Dec. 19 and continues as a daily visitor; well seen by many observers); rusty blackbird, 50; grackle, 509; cowbird, 5; cardinal, 11; dickcissel, 1 (first seen at feeding station in Ramsey in mid-December; seen daily thereafter by many observers); purple finch, 63; redpoll, 5; pine siskin, 252; goldfinch, 233; towhee, 2; savannah sparrow, 1; vesper sparrow, 3; slate-colored junco, 432; tree sparrow, 366; chipping sparrow, 2; field sparrow, 19; white-throated sparrow, 423; fox sparrow, 5; swamp sparrow, 7; song sparrow, 162. **Total,** 65 species; 8430 individuals. (Yellow-bellied sapsucker seen during count period.)—Mrs. R. H. Baker, Mrs. Chas. Becica, Mrs. H. E. Carnes, Mrs. J. Y. Dater, Jr., Ann Dunham, Mrs. F. G. Dunham, Mrs. Norman Emig, Mrs. G. B. Fetter, Mrs. R. H. Gaede, Mrs. J. H. Gould, Mrs. C. J. Kientzler, Mrs. H. G. McEntee, Mrs. E. C. Sherwood, Mrs. J. VanSaun, J. L. Brewer, R. F. Byrne, P. H. Grosch, C. K. Nichols, Fred. Russell, D. B. Vail, Peter Vail (Ridgewood Audubon Society); H. E. Carnes, Robert DeMars, R. H. Gaede, Robert Klenk, A. E. Runk (guests); Bruce Holt, Dick Smith, James Brewer, Anthony Andorra, Jack Rowe, Peter Loucks, Jack Flecke, Al Johnson, Roger Carlton, Joe Brewer, Jim Stevenson, Preston Williams (Radburn Troop, Boy Scouts).

86. Sparta, N.J. (woods and fields bordering Lake Mohawk, plus area between Sparta, Sparta Junction, and Newton; open fields 20%, deciduous woods 20%, landscaped lawns and gardens 40%, hemlock woods 5%, partly frozen marshland 15%).—Dec. 28; 8 a.m. to 4:30 p.m. Cloudy; fog, sleet, and freezing rain changing to partly cloudy and mild in late p.m.; temp. 20° to 45°; wind SE, 1-7 m.p.h.; ground, trees, and roads coated with ice. Three observers separately. Total hours, 5 (on foot); total miles, 4 (car used for transportation only). Black duck, 46; red-tailed hawk, 1; herring gull, 1; screech owl, 1; belted kingfisher, 1; flicker, 1; downy woodpecker, 10; blue jay, 11; crow, 9; black-capped chickadee, 33; white-breasted nuthatch, 6; red-breasted nuthatch, 1; brown creeper, 1; mockingbird, 1; bluebird, 18; golden-crowned kinglet, 4; cedar waxwing, 45 (1 flock); starling, 350 (est.); English sparrow, 110; cardinal, 7; evening grosbeak, 10; purple finch, 7; redpoll, 30; pine siskin, 1; goldfinch, 10; junco, 32; tree sparrow, 76; white-throated sparrow, 4; song sparrow, 1. **Total,** 29 species; about 828 individuals.—B. C. Hiatt, Miss E. Case, Mrs. E. V. Rodimer.

87. Allentown, Pa. (Cedar Crest Boating Lake, Trexler Memorial Park, 8 miles west to Trexlertown, then 6 miles southwest to Topton Mountain; swampland 65%, pine grove 20%, small ponds 5%, deciduous woodlot 10%).—Dec. 22; 8 a.m. to 4 p.m. Temp. 30° to 38°; wind SW, 20-30 m.p.h.; ground covered with 1-inch snow. Eight observers in 2 parties. Total hours, 14 (12 on foot, 2 by car); total miles, 65 (20 on foot, 45 in car). Mallard, 46; black duck, 68; sharp-shinned hawk, 1; Cooper's hawk, 2; marsh hawk, 1; ring-necked pheasant, 8; mourning dove, 25; flicker, 2; downy woodpecker, 6; blue jay, 8; crow, 25,000 (est.); black-capped chickadee, 39; tufted titmouse, 3; white-breasted nuthatch, 4; brown creeper, 5; winter wren, 1; robin, 2; golden-crowned kinglet, 8; migrant shrike, 3; starling, 367; myrtle warbler, 5; English sparrow, 127; grackle, 1; cardinal, 15; purple finch, 2; goldfinch, 3; junco, 70; tree sparrow, 4; white-throated sparrow, 10; fox sparrow, 2; song sparrow, 5. **Total,** 31 species; about 25,843 individuals. (Seen in area Dec. 15: cedar waxwing, 7.)—Miriam E. Leeds, Ruth Farr, Ruth E. Barnett, Jean Leeds, Conrad W. Raker, E. E. and C. E. Montgomery, John E. Trainer.

88. Clairton, Pa. (precipitous slopes of City Park; Peters Creek bottoms and adjacent hillsides to vicinity of Large, thence by circuitous route northward through Jefferson Township, and homeward by Solar Fuel mine; open farmland 20%, town suburbs 35%, deciduous woodlands 45%).—Dec. 21; 8 a.m. to 4:30 p.m. Overcast, with light snow after 1:30 p.m.; wind NW, 19-24 m.p.h.; temp 36° to 33° F.; ground covered with 3-4 inches snow; water open. Total hours, 8½ (7½ on foot, 1 by car); total miles, 19 (8 on foot, 11 by car). Mourning dove, 2; screech owl, 1; downy woodpecker, 2; black-capped chickadee, 4; tufted titmouse, 3; starling, 2014 (est.); English sparrow, 42; cardinal, 6; song sparrow, 2. **Total,** 9 species; about 2076 individuals. (Approximately 2000 starlings were observed late in p.m. flying toward their McKeesport roost.)—Ellis H. Shimp.

89. Deer Creek (Allegheny Co.), Pa. (Denny's Pond to Carson's, Allegheny River—12 mile island; deciduous woodland, 75%, open farmland 15%, marsh 10%).—Dec. 22; 8 a.m. to 4 p.m. Overcast, with light snow; temp. 28° to 32° F.; with SSW, 1-7 m.p.h.; ground covered with 2-3 inches snow. Five observers in 2 parties. Total hours, 12; total miles, 14. Black duck, 34; red-shouldered hawk, 1; hairy woodpecker, 3; downy woodpecker, 6; crow, 1; black-capped chickadee, 18; tufted titmouse, 14; white-breasted nuthatch, 3; golden-crowned kinglet, 3; starling, 3; cardinal, 15; goldfinch, 2; slate-colored junco, 17; tree sparrow, 1; song sparrow, 6. **Total,** 15 species; 127 individuals. (Seen in area Dec. 22: English sparrow, 3.)—C. S. Taylor, C. R. Manley, J. W. Manley, John Sisley, Stanley Rapp (Audubon Society of Western Pennsylvania).

90. Elverson (Chester Co.), Pa. (7½-mile radius from Marsh P.O.; cedar groves and thickets 15%, meadows and swampland 15%, deciduous woods 30%, upland fields 40%).—Dec. 26; dawn to dusk. Partly cloudy; temp. 25° to 35° F.; wind, beginning at 10 a.m., NW, 12-20 m.p.h.; marshes and small ponds frozen; inch of crusted snow on ground. Eighteen observers in 7 parties. Total hours afoot, 54; total miles afoot, 56½; cars used only for rapid transportation. Mallard, 2; black duck, 1; turkey vulture, 34; sharp-shinned hawk, 1; Cooper's hawk, 1; red-tailed hawk, 17; red-shouldered hawk, 4; rough-legged hawk, 2; marsh hawk, 13; sparrow hawk, 11; ruffed grouse, 1; pheasant, 6; killdeer, 4; Wilson's snipe, 12; rock dove, 74; mourning dove, 15; screech owl, 2; kingfisher, 1; flicker, 17; hairy woodpecker, 18; downy woodpecker, 63; phoebe, 3; northern horned lark, 300 (est.); jay, 47; crow, 1413; black-capped chickadee, 92; titmouse, 85; white-breasted nuthatch, 52; creeper, 24; winter wren, 12; Carolina wren, 3; robin, 4; hermit thrush, 1; bluebird, 168; golden-crowned kinglet, 63; ruby-crowned kinglet, 1; waxwing, 10; starling, 1616; myrtle warbler, 1; English sparrow, 282; meadowlark, 5; rusty blackbird, 6; cardinal, 108; purple finch, 30; siskin, 11; goldfinch, 260; junco, 848; tree sparrow, 266; field sparrow, 18; white-throated sparrow, 244; swamp sparrow, 1; song sparrow, 147; snow bunting, 2. **Total,** 53 species; about 6422 individuals.—Arthur Sigman, Barry Kruppenbach, Earl Filman, Ruthmary and Arlene Wagner, Paul Kurtz, Allen, Louella, and Merle Beiler, Warren Houck, Robert Cook, Thomas Morgan, William Heed, Paul S. Martin, Fred Colwell, Ira J. Amole, Herbert Houston, Albert E. Conway.

91. Glenolden, Pa. (to Tinicum, Media, Swarthmore, Springton Dam, and vicinity; Delaware River marshes, creek valleys, lake, fields, and deciduous woodland).—Dec. 22; 7 a.m. to 5 p.m. Clear; ground bare; wind NW, strong, 40-50 m.p.h. at times; temp. 38°. Ten observers in 7 parties. Total hours afield, 40 (27½ by foot, 12½ by car); total party miles, 130 (30 by foot, 100 by car. Great blue heron, 1; Canada goose, 2; mallard, 50; black duck, 2000 (est.); baldpate, 15; pintail, 5000 (est.); ring-necked duck, 3; scaup, 2; buffle-head, 2; ruddy duck, 100 (est.); hooded merganser, 5 (V.A.D.); Am. merganser, 12; turkey vulture, 3; sharp-shinned hawk, 1; Cooper's hawk, 2; red-tailed hawk, 15; red-shouldered hawk, 2; rough-legged hawk, 2; marsh hawk, 16; sparrow hawk, 7; ring-necked pheasant, 2; killdeer, 9; herring gull, 106; ring-billed gull, 26; laughing gull, 1; rock dove, 24; mourning dove, 10; barn owl, 1; short-eared owl, 1; kingfisher, 4; flicker, 4; hairy woodpecker, 6; downy woodpecker, 13; phoebe, 1; horned lark, 16; blue jay, 12; crow, 283; fish crow, 10; Carolina chickadee, 5; tufted titmouse, 45; white-breasted nuthatch, 15; brown creeper, 11; winter wren, 12; Carolina wren, 3; bluebird, 14; golden-crowned kinglet, 28; pipit, 1; cedar waxwing, 25; starling, 1000 (est.); English sparrow, 235; meadowlark, 2; red-wing, 100; purple grackle, 6; cowbird, 39; cardinal, 40; purple finch, 29; pine siskin, 12; goldfinch, 119; savannah sparrow, 3; junco, 211; tree sparrow, 53; field sparrow, 5; white-throated sparrow, 51; swamp sparrow, 1; song sparrow, 26. **Total,** 65 species; about 9860 individuals.—Mr. and Mrs. John A. Gillespie, Mr. and Mrs. Victor A. Debes, F. P. Corbett, R. A. Kroon, Paul Martin, Wm. Heed, E. H. Rigby, E. H. Rigby 3rd.

92. Harrisburg, Pa. (nearly same area as last 10 years; creek and river-bottoms 18%, suburbs 15%, deciduous woodlands 30%, open farmland 18%, swamp 9%, marsh 10%).—Dec. 23; dawn to dusk. Lightly overcast; temp. 28° to 32° F.; wind W variable, 1-5 m.p.h.; ground covered with 2-3 inches snow; river and lake partly frozen. Four observers working singly and in 3 parties. Total hours, 20 (on foot); total miles, 34 (on foot). Mallard, 135; black duck, 230; Am. golden-eye, 3; Am. merganser, 4; Cooper's hawk, 3; sharp-shinned hawk, 1; marsh hawk, 1; sparrow hawk, 6; pheasant, 8; herring gull, 3; ring-billed gull, 1; rock dove, 30; mourning dove, 1; kingfisher, 1; flicker, 4; hairy woodpecker, 10; downy woodpecker, 101; horned lark, 2; blue jay, 7; crow, 141; fish crow, 3; chickadee, 155; tufted titmouse, 32; white-breasted nuthatch, 31; brown creeper, 35; winter wren, 3; Carolina wren, 2; mockingbird, 1; golden-crowned kinglet, 24; starling, 816; English sparrow, 349; meadowlark, 6; red-wing, 63; cowbird, 1; cardinal, 88; evening grosbeak, 4; redpoll, 6 (1 flock); purple finch, 25; goldfinch, 46; junco, 1036; tree sparrow, 681; field sparrow, 34; white-throated sparrow, 55; song sparrow, 88; snow bunting, 15 (1 flock). **Total,** 45 species;

4291 individuals. (Seen in area Dec. 24: chipping sparrow, 1.)—Albert Mehring, Dick Robins, Paul S. Weirick, Rev. Edward S. Frey.

93. Hollsopple (Somerset Co.), Pa. (area south of Johnstown between Tire Hill and Boswell; marshland 1.9%, open woodland 31%, open farmland 21%, wooded gorge with evergreens 1.9%, pine woods 12%, low bushy fencerows 22%, hemlock woods 3.3%, open water 6.9%).—Dec. 26; 8 a.m. to 3 p.m. Fine snow falling until 10:30 a.m., clearing at 2 p.m.; temp. 28°; wind W to NW, 25-30 m.p.h.; ground covered with crusted snow; upper end of Quemahoming Dam frozen. Eight observers in 3 parties. Total hours, 21; total miles, 25 (on foot). Pintail, 1 (seen in flight—S.G.S.); sharp-shinned hawk, 1; Cooper's hawk, 2; red-tailed hawk, 1; sparrow hawk, 2; ring-necked pheasant, 2; hairy woodpecker, 4; downy woodpecker, 7; prairie horned lark, 19 (white line over eye seen distinctly); crow, 217; chickadee, 23; titmouse, 2; white-breasted nuthatch, 8; brown creeper, 3; winter wren, 1; golden-crowned kinglet, 9; English sparrow, 99; cardinal, 89; pine siskin, 50 (S.G.S.); goldfinch, 55; slate-colored junco, 50; tree sparrow, 43; song sparrow, 1. **Total,** 23 species; 689 individuals.—Dean Shetler, Leonard Shetler, Stanwyn G. Shetler, Mrs. Sanford G. Shetler, Esther Miller, Dolories Pebley, Marvin Kaufman, Rev. John A. Lehman (J.M.S. Jr. Ornithologists Association).

94. Lancaster, Pa. (waterworks and brickyard swamp, Lampeter neighborhood southeast of Lancaster, Silver Spring and Lake Grubb, Ironville to Columbia to Washington Boro to Turkey Hill to Safe Harbor, Millersville to Slackwater to Rock Hill to Safe Harbor to Shenks Ferry; town suburbs 5%, small pond and cattail swamp 5%, farmland 5%, meadowland 10%, open woodland along creeks, small lake, and river shore 75%).—Dec. 28; 8:30 a.m. to 5 p.m. Cloudy, with a rainbow and sleety roads at start, mild and sunny in p.m.; temp. 33° to 50°; calm at start, W wind about 30 m.p.h. at 4:30 p.m. Ten observers in 5 parties. Total hours, 34; total miles, 94½ (20½ on foot, 74 by car). Mallard, 100 (est.); black duck, 2038; baldpate, 1; hooded merganser, 2; Am. merganser, 10; turkey vulture, 13; sharp-shinned hawk, 1; Cooper's hawk, 3; red-tailed hawk, 2; red-shouldered hawk, 1; duck hawk, 3; sparrow hawk, 7; ring-necked pheasant, 10; killdeer, 2; herring gull, 10; ring-billed gull, 30; mourning dove, 48; barn owl, 1; kingfisher, 1; flicker, 2; hairy woodpecker, 1; downy woodpecker, 28; blue jay, 12; crow, 364; black-capped chickadee, 19; tufted titmouse, 24; white-breasted nuthatch, 5; red-breasted nuthatch, 2; brown creeper, 5; winter wren, 1; Carolina wren, 11; robin, 4; hermit thrush, 2; bluebird, 18; golden-crowned kinglet, 15; pipit, 50; cedar waxwing, 2; starling, 1411; myrtle warbler, 5; English sparrow, 309; meadowlark, 11; red-wing, 41; cardinal, 47; purple finch, 90; goldfinch, 24; junco, 813; tree sparrow, 28; chipping sparrow, 2 (Corbett); field sparrow, 4; white-throated sparrow, 179; song sparrow, 55. **Total,** 51 species; 5867 individuals.—H. C. Brown, Jr., K. B. Corbett, Sam Dyke, Carl Fasnacht, Mary Grebinger, George Grube, Martin Stapleton, Ruth Sener, Louise F. A. Tanger, Charles Y. Tanger.

95. Lebanon County, Pa. (north and west of city of Lebanon; north to road from Indiantown Gap through Lickdale to Fredricksburg, east to road from Fredricksburg to Lebanon, south to road from Lebanon through Annville to Palmyra, west to road from Palmyra to Indiantown Gap via Forge St., Iron Bridge, and Harpers; foothills 25%, fields and farmland 50%, woodland 25%).—Dec. 28. Cloudy to clear; temp. 33° at dawn, 56° at 3 p.m.; calm in a.m., wind 35 m.p.h. by 3 p.m. Total hours, 8; total miles, 86 (2 on foot, 84 by car). Marsh hawk, 1; ruffed grouse, 2; downy woodpecker, 8; blue jay, 14; crow, 855; fish crow, 2; black-capped chickadee, 8; tufted titmouse, 12; white-breasted nuthatch, 7; brown creeper, 1; golden-crowned kinglet, 4; starling, 321; myrtle warbler, 1; English sparrow, 136; cardinal, 5; goldfinch, 6; junco, 54; tree sparrow, 8; song sparrow, 1. **Total,** 19 species; 1446 individuals.—Charles A. Chamberlin, Ralph Fake.

96. Lititz, Pa. (center of Lititz in northern Lancaster County to 7 miles north, Hammer Creek valley area and White Oak Pond; town suburbs 10%, deciduous farm woodlots 30%, pastures 60%).—Dec. 22; 8:30 a.m. to 3:30 p.m. Clear; wind NW, 25-38 m.p.h.; temp. 26° at start, 34° at return; ponds and creeks open. Eight observers in 3 parties. Total miles, 30 (20 on foot, 10 by car). Turkey vulture, 62; sharp-shinned hawk, 2; Cooper's hawk, 1; red-tailed hawk, 2; rough-legged hawk, 2; sparrow hawk, 14; ring-necked pheasant, 84; mourning dove, 2; barn owl, 1; screech owl, 2; flicker, 7; hairy woodpecker, 1; downy woodpecker, 10; blue jay, 13; crow, 550; tufted titmouse, 34; white-breasted nuthatch, 19; brown creeper, 4; winter wren, 1; golden-crowned kinglet, 6; ruby-crowned kinglet, 5; starling, 1200 (est.); English sparrow, 370; cardinal, 20; goldfinch, 130; slate-colored junco, 478; tree sparrow, 314; white-crowned sparrow, 1 (imm., trapped and banded); white-throated sparrow, 120; song sparrow, 114. **Total,** 30 species; about 3569 individuals.—G. H. Pennypacker, Donald Garner, Donald Ruhl, Ford Gochenaur, Russell Markert, Paul Foreman, Eugene Foreman, Barton L. Sharp (Lititz Bird Club).

97. Luzerne County, Pa. (including small section of Wyoming County; same area as previous years; at no time more than 7½ miles from Dallas; open farmland and river banks 40%, upland meadows, above 1200 ft., 15%, lake shore and cattail marsh 5%, coniferous woodland 15%, birch-maple-oak forest 25%).—Dec. 29; 9 a.m. to 5 p.m. Sleet and snow until noon, then light rain; wind SW, 8-12 m.p.h.; temp. 20° to 38°; trace to 2 inches snow on ground; Harvey's Lake and Susquehanna River open, all other ponds frozen. Eleven observers in 4 parties. Total hours, 26 (24 on foot, 2 by car); total miles, 60 (40 on foot, 20 by car). Pied-billed grebe, 1; black duck, 56; ring-necked duck, 1; scaup (sp.?), 1; Am. golden-eye, 1; old-squaw, 2; Am. merganser, 1; marsh hawk, 1; sparrow hawk, 1; ruffed grouse, 1; pheasant, 1; rock dove, 9; screech owl, 1; barred owl, 1; crow, 64; black-capped chickadee, 93; tufted titmouse, 8; white-breasted nuthatch, 1; brown creeper, 1; winter wren, 1; golden-crowned kinglet, 8; cedar waxwing, 1; starling, 359; English sparrow, 43; cardinal, 12; purple finch, 1; goldfinch, 176; slate-colored junco, 520; tree sparrow, 603; white-throated sparrow, 1; song sparrow, 32. **Total,** 31 species; 2002 individuals.—John and Bill Allan, Ted Balcomb, E. H. Carty, Don and Joe Jennings, W. Plummer, G. L. Ruckno, J. C. Tracy, P. and R. Trax (Wyoming Valley Ornithological Club).

98. Philadelphia Region, Pa. (same area as in previous reports; covered less thoroughly because of lack of manpower).—Dec. 22; 3 a.m. to 4:30 p.m. Partly cloudy, 100% sunshine; wind W, strong, averaging 10.3 m.p.h.; temp. 35° at 8 a.m., 43° at 3 p.m. Total miles, 97 (67 on foot, 30 by car); total hours, 50. Ten observers, 4 working alone, 3 as pairs. Great blue heron, 2; mallard, 31; black duck, 838; pintail, 1034; Am. golden-eye, 5; Am. merganser, 57; sharp-shinned hawk, 1; Cooper's hawk, 11; red-tailed hawk, 6; red-shouldered hawk, 3; rough-legged hawk, 2; marsh hawk, 4; duck hawk, 1; sparrow hawk, 7; pheasant, 6; killdeer, 23; herring gull, 304; ring-billed gull, 51; rock dove, 1; barn owl, 1; screech owl, 2; kingfisher, 1; flicker, 3; hairy woodpecker, 2; downy woodpecker, 16; phoebe, 1 (Reimann); horned lark (ssp?), 8; blue jay, 4; crow, 173; fish crow, 1; black-capped chickadee, 2; Carolina chickadee, 4; tufted titmouse, 59; white-breasted nuthatch, 9; red-breasted nuthatch, 2; brown creeper, 9; winter wren, 5; Carolina wren, 1; catbird, 1; robin, 3; hermit thrush, 2; bluebird, 4; golden-crowned kinglet, 25; ruby-crowned kinglet, 12; pipit, 2; starling, 265; English sparrow, 260; meadowlark, 4; red-wing, 515; grackle, 120; cowbird, 4; cardinal, 28; pine siskin, 35; goldfinch, 94; junco, 124; tree sparrow, 21; field sparrow, 11; white-throated sparrow, 102; swamp sparrow, 1; song sparrow, 43. **Total,** 60 species; about 4366 individuals. — Harry Brown, Ernest Choate, Carl Collopy, John Higgins, William Jay, Norman McDonald, Richard Miller, Will Parry, Edward Reimann, Charles Wunderle (Delaware Valley Ornithological Club).

99. Pittsburgh, Pa. (city suburbs, Frick Park, Elfinwild, Millvale, Ingomar, Mt. Lebanon; deciduous wooded hillsides 50%, uncultivated fields 40%, lawns 10%).—Dec. 22. Cloudy; temp. 27° to 32°; wind SW, 8-15 m.p.h.; ground covered, with 3 inches snow. Fifteen observers in 6 parties. Total hours, 24 (on foot); total miles, 27 (on foot). Cooper's hawk, 1; red-tailed hawk, 2; pheasant, 12; hairy woodpecker, 3; downy woodpecker, 19; golden-crowned kinglet, 4; starling, 142; crow, 1; black-capped chickadee, 35; tufted titmouse, 34; white-breasted nuthatch, 13; brown creeper, 7; winter wren, 1; English sparrow, 90; cardinal, 38; goldfinch, 27; slate-colored junco, 42; tree sparrow, 1; white-throated sparrow, 1; song sparrow, 12. **Total,** 20 species; approximately 485 individuals. — Sara Schlag, Dorothy Auerswald, Carl Auerswald, Jos. Murphy, Helen Blair, Olive Corbett, Edmund Arthur, John Mehner, J. R. Lehman, W. L. Black, Mr. and Mrs. J. S. Brown, Grace McClelland, Elizabeth McClelland, Comly B. Shoemaker (Audubon Society of Western Pennsylvania).

100. Reading, Pa. (radius of 7½ miles from city; open farmland 40%, town suburbs 10%, young pine plantation 10%, deciduous woodland 30%, artificial lakes and streams 10%).—Dec. 22; 8 a.m. to 4:30 p.m. Partly cloudy; wind NW, 15-20 m.p.h.; temp. 33° at start, 41° at return; scattered snow on ground. Twenty-seven observers in 7 parties. Total party hours, 46 (by car and on foot). Common loon, 1; great blue heron, 1; Canada goose, 2; mallard, 100 (est.); black duck, 703; baldpate, 70; pintail, 15; green-winged teal, 9; golden-eye, 2; hooded merganser, 4; Am. merganser, 450; sharp-shinned hawk, 3; Cooper's hawk, 5; red-tailed hawk, 9; red-shouldered hawk, 1; marsh hawk, 2; sparrow hawk, 6; duck hawk, 1; ruffed grouse, 1; bob-white, 15; pheasant, 35; coot, 4; rock dove, 35; mourning dove, 7; kingfisher, 4; flicker, 6; yellow-bellied sapsucker, 1; hairy woodpecker, 2; downy woodpecker, 37; Say's phoebe, 1 (first seen at distance of 25 ft. perched on shrubbery near overflow of Lake Ontelaunee; peculiar pinkish buff color of breast and under tail-coverts, distinctive blackish tail, seen from above and below, and pale edgings of flight feathers against the grayish wings and upperparts all observed; bird then flew about 50 ft. to a weed stalk and was again watched carefully for some minutes; Poole has seen species on numerous occasions in New Mexico and Arizona; later check made against

museum skins—Poole, Holzman, Yerger, Mr. and Mrs. Gundy); blue jay, 67; crow, 843; black-capped chickadee, 166; tufted titmouse, 40; white-breasted nuthatch, 23; red-breasted nuthatch, 5; brown creeper, 20; winter wren, 5; robin, 1; bluebird, 48; golden-crowned kinglet, 94; ruby-crowned kinglet, 3; cedar waxwing, 4; starling, 2369; English sparrow, 422; myrtle warbler, 10; cardinal, 52; purple finch, 31; pine siskin, 52; goldfinch, 47; slate-colored junco, 524; tree sparrow, 72; field sparrow, 10; white-throated sparrow, 89; swamp sparrow, 1; song sparrow, 39. **Total,** 56 species; about 6569 individuals.—David Burkheimer, Mary Burkheimer, Mary Deeter, Anna Deeter, Elizabeth Dillon, Lawrence Dillon, Patricia Dillon, John Eshelman, Martin Eshelman, Samuel Gundy, Mary Gundy, James Gage, Edward Hill, Paul Jensen, Elwood Manning, Paul Martin, John Strauss, Parker Spear, John Hand, Samuel Wishnieski, Earl Poole, Ralph Yerger, James Holzman, David Schaeffer, Miriam Schaeffer, Thomas Hansom, Byron Nunemacher (members Baird Ornithological Club).

101. Scranton, Pa. (same area as in many previous years; radius of 7½ miles from airport at Schultzville; open farmland, hemlock and deciduous woodland, Gardner's Creek valley, Susquehanna River flats, and wooded river banks).—Dec. 29; 8 a.m. to 4:45 p.m. Snow, sleet and rain after 8:30 a.m.; temp. 18° to 34°; ground covered with 2-4 inches snow; lakes and ponds frozen, rivers open. Four observers in 1 party; 10 others at home feeding stations. Weather conditions prevented coverage of 4 northern areas; activities of 4 parties concerned largely confined to feeding-station observation. Total miles by 1 party in southwestern area, 35 (5 on foot, 30 by car). Black duck, 76; goldeneye, 3; Am. merganser, 17; ruffed grouse, 4; ring-necked pheasant, 1; great horned owl, 1; hairy woodpecker, 4; downy woodpecker, 9; crow, 18; black-capped chickadee, 53; white-breasted nuthatch, 10; brown creeper, 1; robin, 1; golden-crowned kinglet, 1; starling, 27; English sparrow, 36; cardinal, 9; evening grosbeak, 6; goldfinch, 8; junco, 69; tree sparrow, 9; song sparrow, 4. **Total,** 22 species; 367 individuals.—Wm. Smiles, David Wharton, Peter Eskra, Ed. Williams (Scranton Bird Club).

102. State College, Pa. (college campus and town, including 3 feeding stations 29%, open farmland east and south of the college 29%, pond and stream east of town and section of Branch Creek below country club 17%, forestland near Shingletown, Musser Gap, and Pine Grove Mills 25%).—Dec. 22; 9 a.m. to 5 p.m. Mostly cloudy, frequent snow flurries; temp. 30° to 37°; wind W, 19-24 m.p.h.; ground covered with 8 inches crusted snow, which fell 2 days previously; streams open. Ten observers; 3 parties of 2 each, 1 working alone, 3 watching feeding stations all day. Total hours, 24 (21 on foot, 3 by car); total miles, 40 (20 on foot, 20 by car). Mallard, 2; sparrow hawk, 1; Wilson's snipe, 4; downy woodpecker, 2; blue jay, 1; crow, 14; black-capped chickadee, 19; tufted titmouse, 5; white-breasted nuthatch, 8; brown creeper, 1; winter wren, 1; starling, 113; English sparrow, 225; cardinal, 5; evening grosbeak, 10; junco, 103; tree sparrow, 128; song sparrow, 5. **Total,** 18 species; 647 individuals. (Seen at feeding station, Dec. 25: Cape May warbler, 1. Observed at feeding station for nearly half an hour with field glasses at about 20 ft.; dingy white or gray with streaks on breast, a slight yellowish or brownish mark about rear of face, and with some yellow on rump; might be an off-form myrtle warbler, but observers feel it fits completely the description of the immature Cape May warbler—R.D.A., Mrs. A.W.C., and D.C.) —Mrs. Arthur W. Cowell, David Cowell, Mrs. H. A. Everett, Mrs. Harry P. Hammond, Mr. and Mrs. Robert D. Fellows, Merrill Wood, Roy D. Anthony, William S. Clarke, Jr., Haskell B. Curry.

103. Warren, Pa. (center of town to point 6 miles north, along Conewango Creek, to Dougherty Run and Rhine Run areas; Allegheny River region 3-4 miles west of town; mature deciduous woodland 40%, open farmland and upland fields 30%, town suburbs 10%, river and creek bottomlands 20%).—Dec. 21; 8 a.m. to 4:40 p.m. Overcast, with light rain turning to light snow from 11:30 on; wind NW, 5-12 m.p.h.; temp. 34° to 33° F.; ground covered with 4-5 inches of snow; water open, except at one point on Allegheny River. Two observers together. Total hours, 7¾ (on foot); total miles, 12 (on foot). Herring gull, 2; pileated woodpecker, 1; downy woodpecker, 6; black-capped chickadee, 33; white-breasted nuthatch, 3; brown creeper, 3; winter wren, 1; golden-crowned kinglet, 5; starling, 172; myrtle warbler, 2; English sparrow, 31; cardinal, 5; goldfinch, 8; slate-colored junco, 14; tree sparrow, 56; song sparrow, 7. **Total,** 16 species; 349 individuals.—H. E. Johnson, T. Hampson.

104. West Chester, Pa. (7½-mile radius; open farmland 50%, town suburbs 5%, deciduous woods 20%, mixed evergreen plantings 5%).—Dec. 27; dawn to dusk. Cloudy; temp. 13° to 28°; wind NW, 8-12 m.p.h.; ground bare; reservoirs and ponds only slightly frozen around edges. Thirty-five observers in 16 parties. Total hours, 77¾ (64¾ on foot, 13 by car); total miles, 237½ (72 on foot, 165½ by car). Great blue heron, 1; mallard, 12; black duck, 7; Am. merganser, 26; turkey vulture, 5; sharp-shinned hawk, 3; Cooper's hawk, 4; red-tailed hawk, 10; red-shouldered hawk, 9; marsh hawk, 6; sparrow

hawk, 20; bob-white, 4; pheasant, 6; killdeer, 30; herring gull, 4; ring-billed gull, 3; rock dove, 115; mourning dove, 40; barn owl, 1; screech owl, 4; kingfisher, 4; flicker, 32; red-bellied woodpecker, 1; yellow-bellied sapsucker, 2; hairy woodpecker, 21; downy woodpecker, 110; phoebe, 5; horned lark, 80; jay, 110; crow, 1741; black-capped chickadee, 33; Carolina chickadee, 15; titmouse, 139; white-breasted nuthatch, 74; red-breasted nuthatch, 1; creeper, 29; winter wren, 7; Carolina wren, 8; mockingbird, 1; robin, 14; hermit thrush, 4; bluebird, 65; golden-crowned kinglet, 193; ruby-crowned kinglet, 4; waxwing, 5; starling, 1174; myrtle warbler, 63; English sparrow, 577; red-wing, 1; grackle, 7; cardinal, 167; purple finch, 101; pine siskin, 1; goldfinch, 249; vesper sparrow, 1; junco, 1455; tree sparrow, 402; field sparrow, 5; white-throated sparrow, 514; swamp sparrow, 8; song sparrow, 296. **Total,** 61 species; 8029 individuals. —Mrs. Isaac G. Roberts, Alice W. Swayne, Mrs. Laura Abbott, Mrs. Joseph Russell, Mr. and Mrs. Joseph Cope, Mrs. Lewis Marshall, Mr. and Mrs. Frederic Swan, Anna and Florence James, Francis Newman, William Heed, Marple Lewis, Paul S. Martin, Thomas Morgan, Gertrude and Helen Rhoads, Mrs. John Leitch, Arthur Hoopes, R. Louis Lloyd, Arthur Sigman, Mrs. Edwin Cooper, Mrs. Edward Miles, Edith Haines, Walter White, Mrs. Clarence Faucett, Margaret S. Goodwin, Violet L. Findlay, Mary Thomas, Mary Sharples, Mrs. Ethel Cope, Mildred Pendergrast, Herbert Houston, Albert E. Conway (West Chester Bird Club and friends).

105. Wyncote, Pa. (to Baederwood, Brier Bush, Three Tuns, Trevose, Churchville reservoir, 1 station in Chestnut Hill; deciduous woods 45%, brushy fields 30%, town suburbs 18%, open farmland 7%).—Dec. 22. Clear; temp. 32° to 35°; strong NW wind; ground bare. Fourteen observers, 8 afield in 3 parties, others at 5 sanctuaries and feeding stations. Total hours afield, 14½ (12 afoot, 2½ in car); total miles, 41 (12 on foot, 29 by car). Mallard, 3; turkey vulture, 1; sharp-shinned hawk, 1; Cooper's hawk, 2; red-tailed hawk, 2; red-shouldered hawk, 1; rough-legged hawk, 1 (J.B.); sparrow hawk, 4; ring-necked pheasant, 8; least sandpiper, 1 [no details—Ed.]; herring gull, 2; mourning dove, 27; screech owl, 3; flicker, 2; hairy woodpecker, 4; downy woodpecker, 30; blue jay, 16; crow, 2106+; black-capped chickadee, 5; tufted titmouse, 37; white-breasted nuthatch, 22; red-breasted nuthatch, 7; brown creeper, 14; winter wren, 3; Carolina wren, 1 (singing); bluebird, 11 (1 flock); golden-crowned kinglet, 9; cedar waxwing, 34 (1 flock); starling, 326; English sparrow, 243; cardinal, 25; purple finch, 10; pine siskin, 30 (1 flock); goldfinch, 43; towhee, 1 (Brier Bush); slate-colored junco, 216; tree sparrow, 19; field sparrow, 4; white-throated sparrow, 108; song sparrow, 13; snow bunting, 1 (by reservoir; good view—J.B., R.E., F.G.; new record for club). **Total,** 41 species; about 3396 individuals.—John Bartsch, Robert Berry, John and Elizabeth Dornan, Robert Ellis, William Frech, E. S. and F. C. Griscom, Jay V. Hare, Mrs. Harold Jennings, E. H. Parry, Mrs. Frank Rossiter, Curtis Sooy, Mrs. Harry Wright (Wyncote Bird Club).

106. York, Pa. (approximately same area as in 3 previous years; fields and countryside from East York adjoining the Lincoln Highway East, and 1 mile north, to Wrightsville, north along Susquehanna River 2 miles, south along river 1 mile; open farmland 50%, deciduous farm woodlots 10%, marshy meadow 5%, woodland and fields along river 35%).—Dec. 28; dawn to dusk. Mostly clear; temp. 20° to 28°; wind, none in a.m., NW in p.m., 19-24 m.p.h.; ground bare but frozen, surface thawing; river open, rocky islands edged with ice. Eleven observers in 5 parties. Total hours, 28 (23 on foot, 5 in car); total miles, 45 (19 on foot, 26 by car). Black duck, 50; Am. golden-eye, 20; Am. merganser, 12; turkey vulture, 1; bald eagle, 1; duck hawk, 1; sparrow hawk, 6; killdeer, 6; Wilson's snipe, 4; ring-billed gull, 2; herring gull, 4; rock dove, 8; mourning dove, 1; flicker, 4; red-headed woodpecker, 3; hairy woodpecker, 1; downy woodpecker, 9; blue jay, 37; crow, 1031; fish crow, 3; black-capped chickadee, 5; Carolina chickadee, 2; tufted titmouse, 17; white-breasted nuthatch, 2; brown creeper, 4; winter wren, 4; Carolina wren, 11; mockingbird, 1; catbird, 1; hermit thrush, 3; bluebird, 23; golden-crowned kinglet, 2; starling, 490; English sparrow, 366; purple grackle, 1; meadowlark, 1; cardinal, 33; purple finch, 6; goldfinch, 42; slate-colored junco, 73; tree sparrow, 54; field sparrow, 11; white-throated sparrow, 115; fox sparrow, 2; song sparrow, 24. **Total,** 45 species; 2497 individuals. (Seen in area a few days before: hooded merganser, myrtle warbler, kingfisher; **Dec. 29:** towhee, robin.)—Anna Reinecker, Elizabeth Bilger, Sara Ross Smith, Mrs. J. T. Yoder, Verna Dietz, Viola Dietz, J. H. Arnold, T. Hake, L. Stelene, L. Markowitz, L. Frick (York County Bird Club).

107. Bombay Hook National Wildlife Refuge (Kent Co.), Del. (Woodland Beach to Pickering Beach along Delaware Bay in a 15-mile circle; Moore Pond and Lake Como bordering on the west, with refuge itself as a nucleus).—Dec. 22; 5 a.m. to 4:15 p.m. Clear; strong NW wind, 30 m.p.h.; temp. 34° at start, 44° at return. Twenty-one observers in 7 parties. Total miles, 96 (61 on foot, 35 by plane); total hours, 60½ (60 on foot, ½ by plane). Extreme turbulence and strong wind prevented plane observations lower than 800 ft., a rather high altitude for

accurate identification of waterfowl. Great blue heron, 7; Canada goose, 25; mallard, 118; black duck, 595; gadwall, 20; baldpate, 26; pintail, 11; green-winged teal, 24; blue-winged teal, 1 [no details—Ed.]; shoveller, 78; wood duck, 2; redhead, 4; greater scaup, 113; lesser scaup, 27; Am. golden-eye, 18; old-squaw, 2; white-winged scoter, 1; hooded merganser, 44; Am. merganser, 2; red-breasted merganser, 12; turkey vulture, 365; black vulture, 4 (recorded by 3 parties); sharp-shinned hawk, 2; Cooper's hawk, 2; red-tailed hawk, 12; rough-legged hawk, 25; bald eagle, 17; marsh hawk, 104 (very abundant); duck hawk, 3; sparrow hawk, 40; bobwhite, 19; ring-necked pheasant, 5; coot, 29; killdeer, 6; Wilson's snipe, 2; greater yellowlegs, 13; lesser yellow-legs, 5 [no details—Ed.]; least sandpiper, 1 (observed at 20 yds. with 20x scope; yellowish legs, thin bill, and size noted —Q. and E. Kramer, S. Schiff); red-backed sandpiper, 11; herring gull, 323; ring-billed gull, 121; Bonaparte's gull, 30; mourning dove, 75; barn owl, 3; great horned owl, 2; barred owl, 2; flicker, 9; red-bellied woodpecker, 4; hairy woodpecker, 4; downy woodpecker, 27; phoebe, 1; northern horned lark, 55; prairie horned lark, 8; blue jay, 3; crow, 8000 (est.); fish crow, 71; Carolina chickadee, 73; tufted titmouse, 14; white-breasted nuthatch, 3; red-breasted nuthatch, 1; brown creeper, 21; winter wren, 2; Carolina wren, 15; mockingbird, 12; robin, 5; hermit thrush, 1; bluebird, 15; golden-crowned kinglet, 30; pipit, 18; migrant shrike, 1; starling, 5000 (est.); myrtle warbler, 940; English sparrow, 225; meadowlark, 580; red-wing, 9500 (est.; 1 albino, presumably of this species, observed in mixed flock of cowbirds and blackbirds); rusty blackbird, 45; purple grackle, 73; cowbird, 2025; cardinal, 65; purple finch, 15; pine siskin, 25; goldfinch, 165; savannah sparrow, 4; sharp-tailed sparrow, 2; vesper sparrow, 1; junco, 105; tree sparrow, 172; field sparrow, 51; white-throated sparrow, 188; fox sparrow, 1; swamp sparrow, 3; song sparrow, 45. **Total,** 92 species and subspecies; approximately 29,974 individuals.—George Spinner, Edward Finkel, Robert Sehl, Herbert Cutler, Edward Manners, Harry Goldstein, Louis Sterner, William Reynolds, Quintin Kramer, Evelyn Kramer, Seymour Schiff, Joseph Cadbury, Jack Arnett, Walter Nye, Bromley Satterthwait, Katharine Tucker, Bartram Cadbury, A. Bergey, J. Roberge, Albert Zaid, R. Reeves (members and guests Delaware Valley Ornithological Club).

108. Middletown, Del. (north side of town to Noxontown Pond, Taylor's Bridge and Delaware River, along shore to Port Penn and back to Middletown; open farmland 45%, tidewater and river marshes 35%, deciduous woodlands 20%).—Dec. 27; dawn to dusk. Overcast; temp. 20° to 30°; wind E, 2 m.p.h.; ground bare and frozen; skim of ice on smaller ponds. Five observers, mostly together. Total hours, 9½ (8½ on foot, 1 by car); total miles, 7½ (on foot). Great blue heron, 3; Canada goose, 6; mallard, 25; black duck, 107; canvas-back, 20; greater scaup, 56; Am. golden-eye, 1; ruddy duck, 5; Am. merganser, 120; turkey vulture, 64; sharp-shinned hawk, 1; red-tailed hawk, 7; red-shouldered hawk, 2; Am. rough-legged hawk, 1; bald eagle, 3; marsh hawk, 7; sparrow hawk, 8; killdeer, 7; herring gull, 134; ring-billed gull, 47; mourning dove, 47; barn owl, 1; belted kingfisher, 2; flicker, 4; red-bellied woodpecker, 1; hairy woodpecker, 1; downy woodpecker, 4; phoebe, 1; horned lark, 18; crow, 110; Carolina chickadee, 7; tufted titmouse, 4; white-breasted nuthatch, 4; brown creeper, 1; winter wren, 2; Carolina wren, 3; mockingbird, 6; robin, 1; bluebird, 5; golden-crowned kinglet, 6; starling, 290; myrtle warbler, 18; English sparrow, 43; meadowlark, 44; red-wing, 31; grackle, 231; cowbird, 58; cardinal, 10; goldfinch, 24; savannah sparrow, 2; slate-colored junco, 87; tree sparrow, 13; field sparrow, 1; white-throated sparrow, 66; song sparrow, 8. **Total,** 55 species; 1778 individuals.—Ethel Brady, Purnell McWhorter, Jr., Mary Leigh Pell, Stuyvesant B. Pell, Walden Pell 2nd.

109. Accokeek, Md. (east side of Potomac just below mouth of Piscataway Creek; area of about 2 square miles, comprising river front, cultivated river flat, wooded swamp, cattail marsh, border of adjacent upland, wooded creek bottom, and upland farm, covered intensively on foot).—Dec. 23; 8 a.m. to 4:30 p.m. Hazy in a.m., cloudy in p.m.; wind S, about 10 m.p.h. in a.m., dying in p.m.; temp. 28° to 44° F.; ground bare; no ice. Observers singly, except 2 together in morning. Total hours, 24; total miles, about 11. Great blue heron, 1; Am. merganser, 55; turkey vulture, 60; black vulture, 6; red-tailed hawk, 2; red-shouldered hawk, 1; bald eagle, 3; sparrow hawk, 2; killdeer, 26; herring gull, 1; ring-billed gull, 2 (plus 12 not positively differentiated from herring gull); mourning dove, 70; kingfisher, 1; flicker, 16; red-bellied woodpecker, 7; red-headed woodpecker, 40; yellow-bellied sapsucker, 3; hairy woodpecker, 5; downy woodpecker, 20; blue jay, 30; crow, 12; Carolina chickadee, 25; tufted titmouse, 35; white-breasted nuthatch, 1; red-breasted nuthatch, 1; brown creeper, 8; winter wren, 7; Carolina wren, 30; mockingbird, 2; robin, 1; hermit thrush, 2; bluebird, 25; golden-crowned kinglet, 30; starling, 350; English sparrow, 15; meadowlark, 55; red-wing, 125; rusty blackbird, 1; cardinal, 40; purple finch, 20; goldfinch, 60; towhee, 4; savannah sparrow, 4; slate-colored junco, 300; tree sparrow, 3; field sparrow, 25; white-throated sparrow, 100; swamp sparrow, 3; song sparrow, 250. **Total,** 49 species; about 1897 indi-

viduals.—A. A. Baker, Thomas B. Nolan, Edwin T. McKnight, W. W. Rubey.

110. Bowie, Md. (entire area of the Patuxent Research Refuge of the Fish and Wildlife Service, 2656 acres; bottomland and swamp forest 37%, upland oak 11%, fields 17%, pine 16%, terrace [beech-white oak] 9%, lakes 3%, hedgerows and wood margin 4%, residential 3%).—Dec. 26; 7:30 a.m. to 5 p.m. Clear; temp. 36° to 46°; wind SW, 5-15 m.p.h.; ground bare; river and ponds open. Eight observers in 7 parties. Total hours, 42½; total miles, 35 (afoot). Turkey vulture, 24; sharp-shinned hawk, 1; Cooper's hawk, 2; red-tailed hawk, 4; red-shouldered hawk, 3; bald eagle, 3; bob-white, 26; mourning dove, 16; flicker, 12; red-bellied woodpecker, 13; yellow-bellied sapsucker, 2; hairy woodpecker, 10; downy woodpecker, 35; blue jay, 13; crow, 74; Carolina chickadee, 83; tufted titmouse, 77; white-breasted nuthatch, 7; red-breasted nuthatch, 7; brown creeper, 8; winter wren, 8; Carolina wren, 26; mockingbird, 3; robin, 1; hermit thrush, 3; bluebird, 18; golden-crowned kinglet, 137; ruby-crowned kinglet, 3; starling, 111; myrtle warbler, 38; English sparrow, 23; cardinal, 46; purple finch, 7; pine siskin, 8; goldfinch, 121; slate-colored junco, 561; tree sparrow, 66; field sparrow, 13; white-throated sparrow, 80; fox sparrow, 3; swamp sparrow, 7; song sparrow, 33. **Total,** 42 species; 1736 individuals. (Seen in area earlier in week: marsh hawk, killdeer, barred owl.)—Durward L. Allen, Max M. Carpenter, Ernest Ediger, Luther C. Goldman, Arnold L. Nelson, Chandler S. Robbins, Robert E. Stewart, Francis M. Uhler.

111. Chase (Baltimore Co.), Md. (west shore of Chesapeake Bay from Middle River to Gunpowder River, inland to B&O railroad; open farmland 30%, mixed woodland 40%, cattail marsh 10%, tide-water creeks 20%).—Dec. 22; 7 a.m. to 4:30 p.m. Clear; ground bare; slight skim ice at heads of coves; wind W, 18-24 m.p.h.; temp. 36° to 42°. Sixteen observers in 4 parties. Total hours, 23 (on foot); total miles, 28 (on foot) (does not include car mileage in going from one area to another). Pied-billed grebe, 1; great blue heron, 4; mallard, 1; black duck, 50; baldpate, 702; wood duck, 6; redhead, 7; scaup (sp.?), 36; turkey vulture, 8; sharp-shinned hawk, 3; red-tailed hawk, 4; bald eagle, 3; sparrow hawk, 1; coot, 4; killdeer, 11; herring gull, 126; ring-billed gull, 878; mourning dove, 7; flicker, 3; downy woodpecker, 12; blue jay, 9; crow, 87; Carolina chickadee, 29; tufted titmouse, 23; white-breasted nuthatch, 6; red-breasted nuthatch, 2; brown creeper, 1; winter wren, 2; Carolina wren, 8; mockingbird, 6; bluebird, 5; golden-crowned kinglet, 40; starling, 323; myrtle warbler, 34; English sparrow, 157; red-wing, 19; cardinal, 33; goldfinch, 23; junco, 303; tree sparrow, 19; field sparrow, 3; white-throated sparrow, 44; swamp sparrow, 6; song sparrow, 18. **Total,** 44 species; 3067 individuals. —T. M. Brannan, Florence Burner, O. W. Crowder, Irving Hampe, Pearl Heaps, David Kolb, Haven Kolb, Ruth Lenderking, Benjamin Levin, Elizabeth May, William McHoul, A. O. Ramsey, Bert Ramsey, Helen Severin, Stephen Simon, Lester Wood (Maryland Ornithological Society).

112. Loch Raven (Baltimore Co.), Md. (from Towson around lake and through Dulaney valley; time divided as last year).—Dec. 27; 6:45 a.m. to 4:45 p.m. Cloudy; ground bare; slight skim of ice at heads of coves; wind E, 8-12 m.p.h.; temp. 32° to 25° (Baltimore City readings). Two observers together. Total hours, 10 (9 on foot, 1 in car); total miles 30 (12 on foot, 18 in car). Horned grebe, 1; mallard, 5; hooded merganser, 5; Am. merganser, 89; turkey vulture, 8; red-shouldered hawk, 1; marsh hawk, 2; sparrow hawk, 4; killdeer, 1; downy woodpecker, 7; phoebe, 1; blue jay, 4; crow, 25; Carolina chickadee, 12; tufted titmouse, 4; red-breasted nuthatch, 3; brown creeper, 1; winter wren, 3; robin, 2; hermit thrush, 1; bluebird, 1; golden-crowned kinglet, 5; ruby-crowned kinglet, 2; myrtle warbler, 25; cardinal, 12; purple finch, 20; goldfinch, 5; junco, 39; tree sparrow, 3; white-throated sparrow, 69; swamp sparrow, 3; song sparrow, 8. **Total,** 32 species; 371 individuals.—David and Haven Kolb.

113. Port Tobacco (Charles Co.), Md. (areas about Port Tobacco Village, Brentland Wharf on Port Tobacco River, and Potomac River east of Nanjemoy Creek; low swampy woodland 45%, mixed upland pine and oak woods, chiefly oak 10%, submarginal farmland and field borders 35%, marsh and water 10%).—Dec. 28; 8 a.m. to 5 p.m. Clear; temp. 40° to 75°; wind 0-15 m.p.h.; creeks and rivers open. Five observers working in 2 parties. Total party hours afield, 18; total party miles, 30 (20 afoot, 10 by car). Horned grebe, 3; great blue heron, 5; whistling swan, 1; pintail, 1; lesser scaup, 1; ruddy duck, 350; Am. merganser, 26; turkey vulture, 47; black vulture, 22; sharp-shinned hawk, 1; Cooper's hawk, 1; red-tailed hawk, 3; red-shouldered hawk, 2; bald eagle, 7; marsh hawk, 1; sparrow hawk, 1; killdeer, 14; Wilson's snipe, 3; herring gull, 14; ring-billed gull, 90; belted kingfisher, 2; flicker, 18; red-bellied woodpecker, 19; hairy woodpecker, 7; downy woodpecker, 16; phoebe, 2; blue jay, 46; crow, 205; Carolina chickadee, 63; tufted titmouse, 31; red-breasted nuthatch, 5; brown creeper, 3; winter wren, 5; Carolina wren, 45; mockingbird, 4; robin, 18; hermit thrush, 6; bluebird, 47; golden-crowned kinglet, 32; ruby-crowned kinglet, 3; cedar waxwing, 8; starling, 143; myrtle warbler, 20; English sparrow, 23; meadowlark, 102; red-wing, 305; rusty black-

bird, 24; Brewer's blackbird, 3 (observed at 35 ft. through 7x35 binoculars in excellent light); grackle, 2; cardinal, 76; purple finch, 4; pine siskin, 35; goldfinch, 154; towhee, 8; slate-colored junco, 456; tree sparrow, 15; chipping sparrow, 1; field sparrow, 99; white-throated sparrow, 293; swamp sparrow, 37; song sparrow, 120. **Total,** 61 species; 3098 individuals.—Durward L. Allen, Ira N. Gabrielson, Arnold L. Nelson, Robert E. Stewart, Francis M. Uhler.

114. Solomons (Calvert Co.), Md. (area with 14-mile radius of land and water north of the Chesapeake Biological Laboratory; water 50%, farmland 15%, marsh 10%, deciduous forest 10%, loblolly and Virginia pine 15%).—Dec. 21; 9 a.m. to 5 p.m. Rain in a.m., overcast in p.m.; wind light, W; temp. 37°to 42°. Four observers in 3 parties. Total party hours, 18; total miles, 163 (23 on foot, 116 by car, 24 by boat). Common loon, 18; red-throated loon, 33; horned grebe, 149; pied-billed grebe, 2; gannet, 5; great blue heron, 5; Am. egret, 1; whistling swan, 22; Canada goose, 12; black duck, 107; baldpate, 34; pintail, 3; greater scaup, 18; lesser scaup, 38; Am. golden-eye, 432; buffle-head, 79; old-squaw, 358; white-winged scoter, 98; surf scoter, 62; ruddy duck, 26; Am. merganser, 19; turkey vulture, 50; black vulture, 26; sharp-shinned hawk, 2; Cooper's hawk, 1; red-shouldered hawk, 3; broad-winged hawk, 1 (seen at 100 yds. with 6x glasses—R.V.T.) [no further substantiating details—Ed.]; bald eagle, 6; marsh hawk, 1; sparrow hawk, 3; bob-white, 24; king rail, 1; killdeer, 25; spotted sandpiper, 1 [no details—Ed.]; herring gull, 346; ring-billed gull, 32; laughing gull, 5; Bonaparte's gull, 5; mourning dove, 28; barred owl, 1; belted kingfisher, 5; flicker, 9; red-bellied woodpecker, 2; yellow-bellied sapsucker, 1; hairy woodpecker, 4; downy woodpecker, 7; prairie horned lark, 13; blue jay, 2; crow, 211; fish crow, 6; Carolina chickadee, 59; tufted titmouse, 18; white-breasted nuthatch, 2; red-breasted nuthatch, 15; brown creeper, 4; winter wren, 2; Carolina wren, 37; long-billed marsh wren, 1; mockingbird, 23; robin, 37; hermit thrush, 7; bluebird, 20; golden-crowned kinglet, 14; ruby-crowned kinglet, 1; cedar waxwing, 47; migrant shrike, 1; starling, 1419; myrtle warbler, 240; English sparrow, 491; meadowlark, 26; red-wing, 2450; purple grackle, 32; cowbird, 128; cardinal, 66; goldfinch, 72; towhee, 6; slate-colored junco, 244; tree sparrow, 34; field sparrow, 6; white-crowned sparrow, 1 (seen at 10 ft. in ditch bank of honeysuckle—R.V.T.); white-throated sparrow, 237; fox sparrow, 1; swamp sparrow, 12; song sparrow, 83. **Total,** 84 species; about 8178 individuals.—Coit Coker, R. V. Truitt, Chandler S. Robbins, Edwin M. Barry.

115. Southeastern Worcester County, Md. (7½-mile radius centered 5 miles SE by E of Snow Hill; barrier beach 25%, Chincoteague Bay 15%, Pocomoke River swamp 15%, loblolly pine stands 15%, agricultural lands 15%, salt marsh 10%, upland deciduous woods 3%, residential areas 2%).—Dec. 23; 6:30 a.m. to 4:30 p.m. Clear; temp. 25° to 50° F.; wind SW, 0-15 m.p.h.; ground bare; river and ponds open. Eleven observers in 6 parties. Total hours, 51; total miles, 130 (62 by car, 28 on foot, 28 by motorboat, 12 by canoe). Common loon, 3; red-throated loon, 3; horned grebe, 30; pied-billed grebe, 4; gannet, 2; great blue heron, 10; whistling swan, 1; Canada goose, 306; mallard, 1; black duck, 811; baldpate, 1; pintail, 1; green-winged teal, 2; wood duck, 5; scaup (including greater and lesser), 3515; Am. golden-eye, 127; buffle-head, 42; old-squaw, 235; white-winged scoter, 203; surf scoter, 1066; Am. scoter, 20; ruddy duck, 3; hooded merganser, 5; Am. merganser, 3; red-breasted merganser, 11; turkey vulture, 270; black vulture, 4; sharp-shinned hawk, 7; Cooper's hawk, 3; red-tailed hawk, 4; red-shouldered hawk, 7; Am. rough-legged hawk, 1; bald eagle, 8; marsh hawk, 12; duck hawk, 1; pigeon hawk, 1 (J.H.B.); sparrow hawk, 17; bob-white, 16; killdeer, 58; red-backed sandpiper, 30; sanderling, 5; great black-backed gull, 9; herring gull, 555; ring-billed gull, 38; laughing gull, 1; mourning dove, 144; screech owl, 1; great horned owl, 1; barred owl, 5; belted kingfisher, 2; flicker, 78; pileated woodpecker, 9; red-bellied woodpecker, 26; yellow-bellied sapsucker, 4; hairy woodpecker, 15; downy woodpecker, 38; eastern kingbird, 1 (observed at about 25 ft. late in p.m. but under good light conditions; seen perching in top of dead groundsel bush and making 2 sallies from bush with characteristic fluttering flight of flycatchers; bird was dark on upper parts, dirty white below, and with a white band across end of the tail —J.H.B.); Arkansas kingbird, 1 (R.B.O. and C.S.R.—collected); phoebe, 7; northern horned lark, 2; prairie horned lark, 24; blue jay, 1; crow, 664; fish crow, 13; Carolina chickadee, 114; tufted titmouse, 55; white-breasted nuthatch, 10; red-breasted nuthatch, 5; brown creeper, 16; winter wren, 47; Carolina wren, 35; long-billed marsh wren, 3; short-billed marsh wren, 5; mockingbird, 10; catbird, 2; brown thrasher, 1; robin, 205; hermit thrush, 83; bluebird, 110; golden-crowned kinglet, 81; ruby-crowned kinglet, 3; Am. pipit, 14; migrant shrike, 1; starling, 801; myrtle warbler, 691; western palm warbler, 9; yellow palm warbler, 3; English sparrow, 85; meadowlark, 320; red-wing, 1879; rusty blackbird, 23; Brewer's blackbird, 2 (observed in pasture at 50 ft. through 7x35 binoculars in excellent light—J.W.A. and D.L.A.); grackle (including bronzed and purple in about equal numbers), 1626; cowbird, 114; cardinal, 118; purple finch, 38; pine siskin, 76; goldfinch, 419; towhee, 8; Ipswich sparrow, 12; savannah spar-

row, 145; Henslow's sparrow, 1 (observed at 30 ft. through 7x35 binoculars in excellent light, characteristic flight also noted—R.E.S.); sharp-tailed sparrow, 15; seaside sparrow, 1; vesper sparrow, 2; slate-colored junco, 626; tree sparrow, 6; chipping sparrow, 141; field sparrow, 178; white-throated sparrow, 505; fox sparrow, 13; swamp sparrow, 58; song sparrow, 162. **Total,** 113 species (115 species and subspecies); 17,370 individuals.—John W. Aldrich, Durward L. Allen, Irston R. Barnes, John H. Buckalew, Max M. Carpenter, Ira N. Gabrielson, Luther C. Goldman, R. Bruce Overington, Roger T. Peterson, Chandler S. Robbins, Robert E. Stewart.

116. Washington, D.C., Region (north to Glen Echo, Rock Creek Park, Soldiers Home, and Montrose Park; east to Fort Dupont Park and Kenilworth Aquatic Gardens on the Anacostia River; south to Oxen Run, Md., and Dyke, Va.; west to Alexandria Reservoir and Falls Church, Va.; center of 15-mile circle was Navy Building in Arlington).—Dec. 21; 6:30 a.m. to 7 p.m. Rainy in a.m. (.22 inches precipitation in first 5 hours of count), overcast in p.m.; temp. 32° to 38°; wind W, 3-8 m.p.h.; ground bare; water open. Twenty-eight observers in 7 groups. Total hours, 105; total miles, 263 (225 by car, 38 on foot). Pied-billed grebe, 1; great blue heron, 4; mallard, 40; black duck, 77; pintail, 484; Am. merganser, 98; turkey vulture, 110; sharp-shinned hawk, 1; Cooper's hawk, 4; red-tailed hawk, 6; red-shouldered hawk, 3; rough-legged hawk, 1; sparrow hawk, 12; bob-white, 3 (fresh tracks); coot, 3; killdeer, 24; herring gull, 318; ring-billed gull, 833; laughing gull, 1; Bonaparte's gull, 11; mourning dove, 4; horned owl, 1; barred owl, 6; belted kingfisher, 2; flicker, 19; red-bellied woodpecker, 10; yellow-bellied sapsucker, 1; hairy woodpecker, 16; downy woodpecker, 71; phoebe, 1; horned lark, 17; blue jay, 173; crow, 377; fish crow, 5; Carolina chickadee, 136; tufted titmouse, 196; white-breasted nuthatch, 43; red-breasted nuthatch, 5; brown creeper, 23; winter wren, 16; Carolina wren, 57; long-billed marsh wren, 1; mockingbird, 67; robin, 4; hermit thrush, 5; bluebird, 68; golden-crowned kinglet, 133; ruby-crowned kinglet, 4; cedar waxwing, 24; starling, 1652; myrtle warbler, 87; English sparrow, 915; meadowlark, 2; red-wing, 186; rusty blackbird, 30; cardinal, 260; purple finch, 29; pine siskin, 47; goldfinch, 166; red-eyed towhee, 2; slate-colored junco, 587; tree sparrow, 76; field sparrow, 33; white-crowned sparrow, 1 (seen at distance of 20 ft. with 8x and 10x binoculars—R.T., R.L.T.); white-throated sparrow, 734; fox sparrow, 45; swamp sparrow, 3; song sparrow, 173. **Total,** 68 species; 8547 individuals. (Seen in area Dec. 29: wood duck, 5; bald eagle, 2; pileated woodpecker, 2.)—John W. Aldrich, Irston R. Barnes, Robert Bartl, Donald Byington, C. L. Camp, Col. and Mrs. J. K. Cockrell, Edwin G. Davis, Malcolm Davis, Thomas Donnelly, A. H. Fast, Roger T. Peterson, Richard Roddis, Napier Shelton, George H. Sigel, Millicent Sigler, Roberta Smith, H. B. Stabler, Robert E. Stewart, John Taylor, Katherine Tousey, Richard Tousey, Ruth L. Tousey, Mr. and Mrs. D. M. Thatcher, John E. Willoughby, Mr. and Mrs. Arnold Zempel (Audubon Society of the District of Columbia).

117. Back Bay National Wildlife Refuge, Pungo, Va. (refuge area and approximately 6 miles of approach road from Oceana, Va.; open deciduous woodland 5%, farmlands 5%, salt marsh and inland bay 75%, ocean beach 15%).—Dec. 29; 8 a.m. to 4 p.m. Cloudy in a.m., clear in p.m.; temp. 60° to 70°; no appreciable wind; ground bare. Three observers together. Total hours, 8 (6 on foot, 2 in motorboat); total miles, 10 (6 on foot, 4 in motorboat). Gannet, 47; great blue heron, 3; whistling swan, 1075 (est.); Canada goose, 3450 (est.); snow goose, 38; black duck, 26; baldpate, 900 (est.); canvas-back, 1000 (est.); lesser scaup, 1; ruddy duck, 4; hooded merganser, 5; red-breasted merganser, 100 (est.); red-shouldered hawk, 1; bald eagle, 5; marsh hawk, 4; sparrow hawk, 1; coot, 550 (est.); great black-backed gull, 1; herring gull, 264; ring-billed gull, 187; Bonaparte's gull, 1; Caspian tern, 2 [no details—Ed.]; mourning dove, 2; flicker, 2; phoebe, 2; crow, 30; Carolina chickadee, 7; tufted titmouse, 3; brown creeper, 6; house wren, 1 [no details—Ed.]; Carolina wren, 7; mockingbird, 3; golden-crowned kinglet, 4; myrtle warbler, 80; yellow-throat, 1; meadowlark, 8; red-wing, 1000 (est.); boat-tailed grackle, 5; cardinal, 11; savannah sparrow, 6; white-throated sparrow, 58; swamp sparrow, 26; song sparrow, 21. **Total,** 43 species; about 8948 individuals.—Orville Crowder, William McHoul, Ray J. Beasley.

118. Blacksburg (Montgomery Co.), Va. (V.P.I. campus and farm, Strouble's Creek and Price's Mt. to New River, Tom's Creek and Brush Mt. to New River, New River from mouth of Strouble's Creek to Goodwin's Ferry, within 15-mile diameter; woods 45%, farmland 35%, river-bottom 20%).—Dec. 23; 6:30 a.m. to 5:30 p.m. Clear to overcast; temp. 20° at start, 40° at return; wind W, moderate; 2 inches sleet and snow. Four observers working in 3 groups. Total hours, 33 (on foot; car used in shifting from point to point); total miles, 84 (49 on foot, 35 by car). Mallard, 135; black duck, 79; baldpate, 28; pintail, 1; green-winged teal, 14; shoveller, 1; ring-necked duck, 1; Am. golden-eye, 7; buffle-head, 14; hooded merganser, 21; turkey vulture, 14; black vulture, 4; Cooper's hawk, 2; red-tailed hawk, 2; red-shouldered hawk, 3; sparrow hawk, 10; ruffed grouse, 4;

bob-white, 35 (4 coveys; fresh tracks of 2 other coveys); coot, 1; killdeer, 15; Wilson's snipe, 16; domestic pigeon, 30; mourning dove, 72; screech owl, 3; belted kingfisher, 2; flicker, 15; pileated woodpecker, 5; red-bellied woodpecker, 7; yellow-bellied sapsucker, 4; hairy woodpecker, 4; downy woodpecker, 28; phoebe, 2; prairie horned lark, 79; blue jay, 14; crow, 719; Carolina chickadee, 70; tufted titmouse, 50; white-breasted nuthatch, 19; red-breasted nuthatch, 33; brown creeper, 6; winter wren, 21; Carolina wren, 36; mockingbird, 11; catbird, 1 (R.J.W.); robin, 11; hermit thrush, 8; bluebird, 17; golden-crowned kinglet, 247; ruby-crowned kinglet, 5; cedar waxwing, 25; migrant shrike, 4; starling, 1700 (est.); myrtle warbler, 1; western palm warbler, 1; English sparrow, 300 (est.); meadowlark, 5; rusty blackbird, 45; cowbird, 200 (est.); cardinal, 113; goldfinch, 98; purple finch, 19; savannah sparrow, 2; junco, 317; tree sparrow, 81; field sparrow, 109; white-crowned sparrow, 146; white-throated sparrow, 15; fox sparrow, 9; swamp sparrow, 4; song sparrow, 145. **Total,** 70 species; about 5265 individuals. (Observed Dec. 21: sharp-shinned hawk, 1; marsh hawk, 1; Lapland longspur, 2 (C.O.H., Jr.)—C. O. Handley, Sr. and Jr., John Handley, R. J. Watson.

119. Charlottesville, Va. (Albemarle Lake area, city reservoir area, fields and woods north and west of town, 6 miles along South Fork Rivanna River, along Rivanna River from Milton to Woolen Mills; open fields 10%, weed fields 5%, pine woods 15%, deciduous woods 10%, river-bottom 50%, lake and reservoir 10%).—Dec. 24; 7 a.m. to 5:15 p.m. Fair; temp. 32° to 55°; wind W, 8-12 m.p.h. Four observers in 3 parties. Total hours, 25; total miles, 80 (45 by car, 35 on foot). Horned grebe, 1; mallard, 4; black duck, 43; ring-necked duck, 1; Am. merganser, 2; turkey vulture, 81; black vulture, 18; red-tailed hawk, 1; red-shouldered hawk, 1; sparrow hawk, 4; bob-white, 1; killdeer, 4; mourning dove, 57; kingfisher, 1; flicker, 8; pileated woodpecker, 6; red-bellied woodpecker, 9; yellow-bellied sapsucker, 5; hairy woodpecker, 1; downy woodpecker, 29; prairie horned lark, 65; blue jay, 12; crow, 333; fish crow, 1 (W.F.M.); Carolina chickadee, 45; tufted titmouse, 22; white-breasted nuthatch, 6; red-breasted nuthatch, 16; brown creeper, 8; winter wren, 5; Carolina wren, 33; mockingbird, 14; robin, 32; hermit thrush, 3; bluebird, 25; golden-crowned kinglet, 188; ruby-crowned kinglet, 26; cedar waxwing, 21; migrant shrike, 3; starling, 95; myrtle warbler, 19; English sparrow, 26; meadowlark, 12; rusty blackbird, 1; cardinal, 95; purple finch, 180; goldfinch, 212; junco, 734; tree sparrow, 2; field sparrow, 33; white-throated sparrow, 102; fox sparrow, 30; song sparrow, 61. **Total,** 53 species; 2737 individuals. (Seen during period: phoebe, Dec. 21; great blue heron, Dec. 23.)—John H. Grey, Jr., John M. Irvine, Jr., William F. Minor, Charles E. Stevens, Jr.

120. Fairfield (Rockbridge Co.), Va. (village of Fairfield north and east to South River, along river to junction with Irish Creek, 8 miles from Fairfield, and return; village yards and gardens 10%, open fields 30%, hardwood forest 30%, stream banks 30%).—Dec. 27; 7 a.m. to 5 p.m. Cloudy in a.m., clear by 3 p.m.; wind slight, SW; temp. 28° to 42°; old snow in sheltered places. Six observers in 3 parties. Total miles, 20 (8 on foot, 12 by car). Great blue heron, 1; turkey vulture, 1; red-tailed hawk, 1; sparrow hawk, 1; bob-white, 11 (1 covey); killdeer, 15; kingfisher, 1; flicker, 5; downy woodpecker, 4; blue jay, 4; crow, 79; black-capped chickadee, 2; Carolina chickadee, 13; tufted titmouse, 8; brown-headed nuthatch, 1 (D.F., Mrs. W.C.C.) [no further details—Ed.]; winter wren, 2; Carolina wren, 5; mockingbird, 11; bluebird, 29; shrike, 12 [no details given that might account for such a large number—Ed.]; English sparrow, 100+; cardinal, 35; purple finch, 7; junco, 115; starling, 100+; myrtle warbler, 11; pine warbler, 25 (in honeysuckle thicket on bank of South River—D.F., Mrs. W.C.C.) [no further details that might account for such a large number—Ed.]; white-throated sparrow, 9; white-crowned sparrow, 12; song sparrow, 2. **Total,** 30 species; about 622 individuals.—Rev. and Mrs. W. C. Clemmons, Anne, Martha, Bill Clemmons, Jr., D. Fultz.

121. Fort Belvoir, Va. (entire peninsula immediately south of Mt. Vernon, jutting into the Potomac River, 16 miles south of Washington, D.C.).—Dec. 23; 8 a.m. to 4 p.m. Clear in a.m. to overcast in p.m.; ground bare; no wind; temp. 34° at start, 45° at return. One observer. Total hours, 8; total miles, about 6½ (on foot). Common loon, 1; great blue heron, 2; Am. merganser, 25; turkey vulture, 8; sharp-shinned hawk, 2; red-tailed hawk, 3; bald eagle, 4; bob-white, 14 (1 covey); killdeer, 5; herring gull, 6; ring-billed gull, 55+; barred owl, 1; flicker, 11; pileated woodpecker, 2; red-bellied woodpecker, 8; hairy woodpecker, 1; downy woodpecker, 13; prairie horned lark, 2; blue jay, 30+; crow, 40+; fish crow, 21; black-capped chickadee, 3; Carolina chickadee, 15+; tufted titmouse, 28+; white-breasted nuthatch, 10+; red-breasted nuthatch, 1; brown creeper, 1; winter wren, 1; Carolina wren, 12+; mockingbird, 10; bluebird, 10; golden-crowned kinglet, 28+; migrant shrike, 1; starling, 60+; myrtle warbler, 1; English sparrow, 50+; rusty blackbird, 1; cardinal, 7; goldfinch, 11; towhee, 2; junco, 70; tree sparrow, 1; field sparrow, 1; white-throated sparrow, 25+; swamp sparrow, 2; song sparrow, 18+. **Total,** 46 species and subspecies; about 623 individuals.—Capt. Jackson Miles Abbott, CE.

122. Harrisonburg, Va. (Waterman woods to Tide Spring, a total distance of 12 miles; oak-hickory-cedar-pine woodlot 60%, oak-hickory woodlot 10%, small village bordering school campus 10%, cedar-pine wasteland 10%, pasture and fence rows 10%).—Dec. 23; 8:30 a.m. to 3:30 p.m. Overcast (80% at start, 50% at return); temp. 30° to 42.5°; wind S to SE, 1-12 m.p.h.; ground covered with ½ inch crusted snow; small pond in oak-hickory woodlot covered with ¼ inch ice. Three observers working together. Total hours, 7 (on foot); total miles, 8 (on foot). Turkey vulture, 14; sharp-shinned hawk, 1; sparrow hawk, 1; killdeer, 1; mourning dove, 1; downy woodpecker, 9; prairie horned lark, 1; blue jay, 4; crow, 105; Carolina chickadee, 34; tufted titmouse, 40; white-breasted nuthatch, 9; brown creeper, 4; Carolina wren, 8; mockingbird, 11; bluebird, 7; golden-crowned kinglet, 10; starling, 160; myrtle warbler, 8; English sparrow, 77; cardinal, 31; purple finch, 4; pine siskin, 1; goldfinch, 21; slate-colored junco, 96; tree sparrow, 6; white-throated sparrow, 1; song sparrow, 1. **Total,** 28 species; 666 individuals.—Daniel Suter, Richard Weaver, D. Ralph Hostetter.

123. Lexington, Va. (same area as in former years but covered more intensively: circle of 7 miles' diameter with center 2 miles north of town; town 5%, Big Spring Pond 5%, farmland 20%, cedar woods 30%, oak woods 20%, scrub 20%).—Dec. 26; 7:30 a.m. to 5 p.m., 40 minutes out for lunch. Clear in a.m., cloudy in p.m.; temp. 43° to 58°; wind NW, 15-25 m.p.h.; old snow in spots; river open. Thirteen observers in 2 parties. Total hours, 17 (on foot), car used in shifting between points; total miles, 48 (13 on foot, 35 by car). Pied-billed grebe, 1; turkey vulture, 20; black vulture, 17; red-tailed hawk, 1; sparrow hawk, 1; bob-white, 31 (3 coveys, reported by hunters in same area); woodcock, 1 (reported by hunter in area); rock dove, 18; mourning dove, 4; belted kingfisher, 5; pileated woodpecker, 4; red-bellied woodpecker, 6; yellow-bellied sapsucker, 5; downy woodpecker, 10; horned lark, 65 (all individuals closely observed were prairie horned larks); blue jay, 8; crow, 343; black-capped chickadee, 5 (occurs sparingly but regularly); Carolina chickadee, 44; tufted titmouse, 29; white-breasted nuthatch, 10; brown creeper, 3; winter wren, 2; Carolina wren, 17; mockingbird, 14; bluebird, 33; golden-crowned kinglet, 32; migrant shrike, 1; starling, 467; myrtle warbler, 19; English sparrow, 160; cardinal, 58; purple finch, 2; goldfinch, 49; junco, 122; tree sparrow, 17; field sparrow, 12; white-throated sparrow, 27; song sparrow, 17. **Total,** 39 species and subspecies; 1680 individuals.—J. J. Murray, R. P. Carroll, Robert Paxton, Nell Owen Paxton, Dickson Vardell Murray, Jane Murray, James Murray, Jr., Frances Morton, Alice Carroll, Edward P. Davis, Joe Magee, John McCoy, Charles Law.

124. Lynchburg, Va. (Timber Lake, Municipal Airport, Tomahawk Swamp and Graves' Mill, College Lake; open farmlands 63%, woods 37%).—Dec. 26; 7:20 to 11:30 a.m., 12:40 to 5:30 p.m. Fair; temp. 39° to 60°; wind S shifting to W, 0-16 m.p.h.; ground mostly bare, except small patches of ice in protected places; lakes and streams open. Three observers together. Total hours, 8 (on foot); total miles, 7 (on foot). Turkey vulture, 17; black vulture, 5; red-shouldered hawk, 1; bob-white, 6; mourning dove, 23; flicker, 2; pileated woodpecker, 1; red-bellied woodpecker, 2; red-headed woodpecker, 7; hairy woodpecker, 1; downy woodpecker, 4; phoebe, 1; prairie horned lark, 23; blue jay, 7; crow, 325 (est.); Carolina chickadee, 18; tufted titmouse, 9; white-breasted nuthatch, 3; red-breasted nuthatch, 7; brown creeper, 2; winter wren, 2; Carolina wren, 5; mockingbird, 2; robin, 13; bluebird, 18; golden-crowned kinglet, 8; ruby-crowned kinglet, 11; migrant shrike, 1; starling, 471 (mostly est.); myrtle warbler, 9; English sparrow, 11; meadowlark, 2; cardinal, 15; purple finch, 18; pine siskin, 12; goldfinch, 14; junco, 76; field sparrow, 5; white-throated sparrow, 3; song sparrow, 2. **Total,** 40 species; about 1162 individuals.—Kenneth Lawless, Jane Freer, Ruskin S. Freer.

125. Richmond, Va. (same area as in 2 previous years; open farmland 45%, pine woodlands 8%, deciduous woodlands 20%, residential districts 17%, tidal fresh-water marshes 10%).—Dec. 23; 7 a.m. to 5 p.m. Partly cloudy; wind SE veering slowly to SW, 3-13 m.p.h.; temp. 24° to 55° F.; ground bare; water open. Five observers in 2 parties in early morning, 1 party in afternoon. Total hours, 9 (8 on foot, 1 in rowboat); total miles, 6 (5 on foot, 1 by boat). Pied-billed grebe, 1; Canada goose, 1500 (est.); mallard, 63; black duck, 2; baldpate, 38; ring-necked duck, 70; lesser scaup, 1; Am. golden-eye, 2; ruddy duck, 4; Am. merganser, 7; turkey vulture, 53; black vulture, 49; red-tailed hawk, 2; red-shouldered hawk, 1; bald eagle, 2; marsh hawk, 2; sparrow hawk, 12; coot, 109; killdeer, 4; herring gull, 35; ring-billed gull, 260; rock dove (feral), 155; mourning dove, 7; kingfisher, 1; flicker, 4; red-bellied woodpecker, 1; red-headed woodpecker, 1; hairy woodpecker, 1; downy woodpecker, 5; phoebe, 2; blue jay, 9; crow, 80; Carolina chickadee, 19; tufted titmouse, 11; white-breasted nuthatch, 7; brown creeper, 4; Carolina wren, 13; mockingbird, 18; hermit thrush, 1; bluebird, 32; golden-crowned kinglet, 41; ruby-crowned kinglet, 5; loggerhead shrike, 7; starling, 810 (partly est.); myrtle warbler, 56; English sparrow, 135; meadowlark, 49; red-wing, 73; cardinal, 44; purple finch, 16; gold-

finch, 24; towhee, 4; savannah sparrow, 1; slate-colored junco, 228; field sparrow, 4; white-throated sparrow, 57; swamp sparrow, 12; song sparrow, 7. **Total,** 58 species; about 4161 individuals—J. R. Sydnor, Mr. and Mrs. C. E. Smith, J. B. Loughran, F. R. Scott.

126. Shenandoah National Park, Va. (Big Meadows, Fishers Gap, Cedar Run trail from Hawksbill Gap to White Oak Canyon and up canyon trail to Skyline, Appalachian Trail from Skyline to Hawksbill Gap; altitude range, 2800-3700 ft.; deciduous woodlands 75%, hemlock groves 12%, open meadows 3%, marsh 10%).—Dec. 28; 7 a.m. to 4:15 p.m. Partly cloudy; wind WNW, 15-35 m.p.h. on ridge; temp. 44° to 60° F.; up to 2 inches snow and ice on ground in woods; most standing water frozen. Two observers frequently separating. Total hours, 10 (on foot); total miles, 11 (on foot). Turkey vulture, 3; red-tailed hawk, 2; red-shouldered hawk, 1; ruffed grouse, 3; flicker, 1; pileated woodpecker, 2; red-bellied woodpecker, 1; hairy woodpecker, 3; downy woodpecker, 5; raven, 2; Carolina chickadee (definitely not black-capped), 9; tufted titmouse, 5; brown creeper, 2; winter wren, 3; Carolina wren, 3; robin, 6; hermit thrush, 1; starling, 1850 (est.); meadowlark, 1; pine siskin, 8 (heavy streakings and small yellow patches seen distinctly; characteristic note heard by both observers); Carolina junco, 11 (each identified by horn-colored bill, and color of head that was the same shade as that of back); tree sparrow, 3. **Total,** 22 species; about 1925 individuals. The robins, to our surprise, were on top of the ridge at Big Meadows at 3500 ft. The starlings were seen in flocks of 50-800 birds flying east through Fishers and Hawksbill Gaps. The siskins were in a hemlock grove along White Oak Canyon.—C. E. Stevens, F. R. Scott.

127. Williamsburg, Va. (William & Mary College to Jamestown and return; open farmland 40%, deciduous farm woodlots 45%, town suburbs 5%, cattail marsh 5%, lake and creek borders 5%).—Dec. 22; 8 a.m. to 5 p.m. Fair; temp. 38° to 60°; no appreciable wind; ground bare; water open. One observer. Total hours, 9 (on foot); total miles, 13 (on foot). Pied-billed grebe, 13; turkey vulture, 3; black vulture, 3; marsh hawk, 1; killdeer, 2; ring-billed gull, 4; mourning dove, 1; belted kingfisher, 1; red-bellied woodpecker, 4; red-headed woodpecker, 1; hairy woodpecker, 2; downy woodpecker, 2; phoebe, 2; crow, 20; Carolina chickadee, 25; tufted titmouse, 18; white-breasted nuthatch, 4; red-breasted nuthatch, 2; brown creeper, 9; winter wren, 2; Carolina wren, 5; mockingbird, 4; brown thrasher, 1; golden-crowned kinglet, 10; ruby-crowned kinglet, 2; myrtle warbler, 27; meadowlark, 29; red-wing, 231; cardinal, 12; goldfinch, 22; towhee, 12; slate-colored junco, 33; field sparrow, 25; white-throated sparrow, 55; fox sparrow, 3; song sparrow, 17. **Total,** 36 species; 607 individuals.—Ray J. Beasley.

128. Asheville, N.C. (Beaver Lake south to Rosscraggon, Dryman Mt. east to Bee Tree Road; open farmland 15%, town suburbs 35%, pine woodland 15%, deciduous woodland 10%, pine and deciduous woodland 10%, lake and stream banks 14%, marsh 1%).—Dec. 28; 7:30 a.m. to 4 p.m. Partly cloudy to cloudy and rain at 4 p.m.; temp. 45° to 65°; no wind. Forty-eight observers in 16 parties. Total hours, 77; total miles, 155 (75 on foot, 80 by car—not for observation, but more nearly to cover some areas). Pied-billed grebe, 3; sharp-shinned hawk, 1; red-tailed hawk, 1; red-shouldered hawk, 2; Cooper's hawk, 3; sparrow hawk, 2; ruffed grouse, 1; bob-white, 24; mourning dove, 41; barred owl, 1; kingfisher, 1; flicker, 21; red-bellied woodpecker, 2; red-headed woodpecker, 2; yellow-bellied sapsucker, 8; hairy woodpecker, 9; downy woodpecker, 46; phoebe, 5; unidentified flycatcher, 1; blue jay, 120; crow, 154; Carolina chickadee, 221; tufted titmouse, 218; white-breasted nuthatch, 80; red-breasted nuthatch, 15; brown creeper, 14; winter wren, 7; Carolina wren, 80; mockingbird, 29; robin, 36; hermit thrush, 4; bluebird, 85; blue-gray gnatcatcher, 1 (E.K.; last seen Nov. 30 in another place—O.C.); golden-crowned kinglet, 129; ruby-crowned kinglet, 22; cedar waxwing, 40; starling, 229; blue-headed vireo, 1 (O.C.); myrtle warbler, 30; unidentified warblers, 2; English sparrow, 645; meadowlark, 15; red-wing, 45; purple grackle, 5; cardinal, 135; purple finch, 27; redpoll, 52 (2 seen by D.W.G.; flock of 50 reported by another observer); pine siskin, 26; goldfinch, 127; towhee, 124; savannah sparrow, 10; junco, 366; tree sparrow, 5; chipping sparrow, 14; field sparrow, 177; white-crowned (?) sparrow, 1; white-throated sparrow, 112; fox sparrow, 4; swamp sparrow, 13; song sparrow, 106; snow bunting, 100 (observed with glasses at some distance; size of sparrow; brown with a good deal of white on wings and tail—E.K.); unidentified sparrows, 16. **Total,** 59 species; 3816 individuals.—Anabel Adams, Mrs. Albert Blake, Mrs. Boyce Brannon, Odessa Chambers, Elizabeth Collins, Andrew Ficken, Charles Ficken, Dodette W. Grinnell, Hugh Gowan, Charles Herbert, Annette Hinds, Robert Hoch, Louise Ingersoll, Ben Jones, Leland Jones, Ethel Klemm, Mrs. E. S. Koon, D. W. Lacy, Lucinda Lacy, Nita Lacy, Miss Lawler, Johnny Ledbetter, Janelle Lovette, Harry Lytle, Nicholas McCabe, Mrs. J. N. McCabe, Eileen McCabe, Sheila McCabe, Dorothy Meredith, Nancy Meredith, Joe Middleton, Tommy Moodie, Jack Mulvaney, Madeline Murray, Aldine Pleasant, R. H. Rembert, Raphael Rice, Caroline Robinson, Bobby Ruiz, Mrs. E. B. Ruiz, John Sales,

Joyce Stevens, G. S. Tennant, Barbara Thorne, Eugene Ward, Mrs. Eugene Ward, T. F. Young, Mrs. T. F. Young (Asheville Bird Club and guests).

129. Bodie Island, Oregon Inlet, Pea Island (Dare Co.), N.C. (open water 50%, salt marsh, ponds, and shore 30%, sand dunes mostly covered with high grass and few myrtle bushes 20%).—Dec. 27. Slightly overcast to clearing by 8:30 a.m.; very light S wind; temp. 45° to 55°. Five observers together. Total hours, 9 (on foot and in truck); total miles, 50 (45 in truck, 5 on foot). Common loon, 6; horned grebe, 1; pied-billed grebe, 20; gannet, 3000 (est.); double-crested cormorant, 1; great blue heron, 5; Am. egret, 8; little blue heron, 3; Am. bittern, 1; whistling swan, 76; Canada goose, 6000 (est.); brant, 200 (est.); snow goose, 3500 (est.); blue goose, 7; mallard, 1; black duck, 1000 (est.); pintail, 500 (est.); green-winged teal, 200 (est.); shoveller, 60 (est.); scaup, 3; surf scoter, 1; ruddy duck, 21; red-breasted merganser, 300 (est.); sharp-shinned hawk, 3; bald eagle, 18; marsh hawk, 3; osprey, 1 [no details—Ed.]; pigeon hawk, 1 [no details—Ed.]; sparrow hawk, 3; coot, 175 (est.); greater yellowlegs, 35; sanderling, 1; black-backed gull, 46; herring gull, 4000 (est.); Bonaparte's gull, 1; black skimmer, 60; snowy owl, 2; tree swallow, 1500 (est.); crow, 1; short-billed marsh wren, 3; catbird, 1; myrtle warbler, 8; English sparrow, 26; meadowlark, 15; red-wing, 125 (est.); boat-tailed grackle, 15; purple grackle, 1; cardinal, 1; seaside sparrow, 18; field sparrow, 12; song sparrow, 3. **Total,** 51 species; approximately 20,992 individuals.—Charles M. Parker, Dick Borden, Frank Stalling, Mac Godwin, R. L. Wolff.

130. Chapel Hill, N.C. (same area as in last 17 years; oak-hickory woods 15%, pine forest 10%, lowland thickets and farmland 55%, marsh and lake shores 20%).—Dec. 22; 6 a.m. to 5:30 p.m. Clear; wind NW, 5-20 m.p.h.; temp. 31° to 48° F. Three observers in 3 parties in a.m., 4 observers in 4 parties in p.m. Total miles, 22 (on foot); total hours, 26 (on foot). Pied-billed grebe, 2; great blue heron, 2; common loon, 1 (B.H.); mallard, 5; black duck, 53; wood duck, 1; ring-necked duck, 77; scaup, 1; buffle-head, 7; hooded merganser, 2; Am. merganser, 1; turkey vulture, 19; black vulture, 2; red-tailed hawk, 3; red-shouldered hawk, 2; sparrow hawk, 1; marsh hawk, 1; bob-white, 25; killdeer, 2; mourning dove, 7; barred owl, 1; belted kingfisher, 2; flicker, 22; red-bellied woodpecker, 8; red-headed woodpecker, 7; yellow-bellied sapsucker, 3; hairy woodpecker, 1; downy woodpecker, 11; phoebe, 7; blue jay, 46; crow, 34; Carolina chickadee, 43; tufted titmouse, 32; white-breasted nuthatch, 11; red-breasted nuthatch, 7; brown-headed nuthatch, 4; brown creeper, 8; winter wren, 5; Carolina wren, 22; mockingbird, 9; brown thrasher, 1; robin, 3; hermit thrush, 10; bluebird, 31; golden-crowned kinglet, 27; ruby-crowned kinglet, 13; cedar waxwing, 29; migrant shrike, 4; starling, 91; yellow-throat, 1 (male—H.T.O.); myrtle warbler, 32; pine warbler, 2; English sparrow, 20; meadowlark, 82; red-wing, 8; rusty blackbird, 1; cardinal, 66; purple finch, 61; pine siskin, 6; goldfinch, 27; towhee, 54; savannah sparrow, 35; vesper sparrow, 1 (P.R.); slate-colored junco, 333; chipping sparrow, 1 (P.R.); field sparrow, 186; white-throated sparrow, 526; fox sparrow, 38; swamp sparrow, 56; song sparrow, 473. **Total,** 70 species; 2715 individuals. —William Hamnet, Mrs. Ove Jensen, Howard T. Odum, Mrs. David Olsen, Phillips Russell, Fremont Shepherd, Maurice Whitinghill.

131. Charlotte, N.C. (Four areas. Two the same as last 4 years: Lucas estate and around headwaters of McAlpine creek, and Clarkson city garden. Two new areas: pond 2 miles east of city off of Albemarle highway, and Morrison estate 4 miles south of city. Pine, gum, poplar woodland 50%, farmland 40%, hedgerows 7%, small ponds and garden 3%).—Dec. 27; 7:15 a.m. to 5:30 p.m. Clear; wind 1-7 m.p.h.; temp. 41° to 70° F. Eleven observers in 3 parties. Total hours, 22 (18 on foot); total miles, 46 (30 by car, 16 on foot). Hooded merganser, 3; turkey vulture, 24; black vulture, 11; Cooper's hawk, 1; red-shouldered hawk, 1; sparrow hawk, 2; bob-white, 18; killdeer, 10; mourning dove, 23; screech owl, 1; flicker, 6; red-bellied woodpecker, 1; red-headed woodpecker, 2; yellow-bellied sapsucker, 3; hairy woodpecker, 2; downy woodpecker, 6; phoebe, 2; blue jay, 10; crow, 90; Carolina chickadee, 39; titmouse, 17; red-breasted nuthatch, 1; brown-headed nuthatch, 4; winter wren, 2; Carolina wren, 17; mockingbird, 14; robin, 6; hermit thrush, 3; bluebird, 62; golden-crowned kinglet, 10; ruby-crowned kinglet, 16; shrike, 4; starling, 35; myrtle warbler, 62; pine warbler, 2; English sparrow, 116; meadowlark, 35; red-wing, 19; cardinal, 30; purple finch, 5; pine siskin, 128; goldfinch, 44; red-eyed towhee, 9; savannah sparrow, 1 (found freshly killed by roadside); junco, 133; field sparrow, 61; white-throated sparrow, 35; song sparrow, 19. **Total,** 48 species; 1145 individuals. All larger numbers estimated. Seen in area Dec. 25: horned lark, 75 (est.).—B. R. Chamberlain, B. R. Chamberlain, Jr., Mrs. E. O. Clarkson, Kitty Constable, Jack F. Dermid, Tom Henderson, Will Hon, Jim Layton, Anne Locke, Hunter Marshall, Brem Mayer, Jr. (Mecklenburg Audubon Club).

132. Greensboro, N.C. (section 15 miles across; approximately same region as in last

several years, including Pinecroft, Starmount, municipal golf course, Richardson estate, Greensboro Country Park, Lakes Brandt, Scales, Benjamin, Jeannette, Philadelphia, Buffalo, Sharpe, and White Oak Pond; deciduous and pine woodlands 25%, open fields and golf courses 25%, cattail marsh and thickets 15%, fresh-water lakes 25%, city yards, parkways, and campuses 10%).—Dec. 22; 6:30 a.m. to 5:30 p.m. Clear; wind NW, 15 m.p.h.; ground bare and wet; water open; temp. 31° to 47°. Twenty-six observers in 9 parties. Total hours, 53½; total miles, 62½ (32½ on foot, 30 by car). Pied-billed grebe, 4; great blue heron, 1; black duck, 12; ring-necked duck, 55; canvas-back, 1; hooded merganser, 2; turkey vulture, 36; black vulture, 14; sharp-shinned hawk, 1; Cooper's hawk, 2; red-tailed hawk, 2; red-shouldered hawk, 1; sparrow hawk, 2; bob-white, 2; killdeer, 24; Wilson's snipe, 3; mourning dove, 33; barn owl, 1; screech owl, 1; kingfisher, 4; flicker, 41; red-bellied woodpecker, 5; red-headed woodpecker, 8; yellow-bellied sapsucker, 5; hairy woodpecker, 4; downy woodpecker, 21; phoebe, 9; horned lark, 12; blue jay, 48; crow, 188; chickadee, 98; tufted titmouse, 35; white-breasted nuthatch, 29; red-breasted nuthatch, 52; brown-headed nuthatch, 8; brown creeper, 9; winter wren, 9; Carolina wren, 43; mockingbird, 56; brown thrasher, 4; robin, 24; hermit thrush, 7; bluebird, 79; golden-crowned kinglet, 252; ruby-crowned kinglet, 136; loggerhead shrike, 2; starling, 1441; myrtle warbler, 3; pine warbler, 20; English sparrow, 184; meadowlark, 37; red-wing, 1; cardinal, 81; purple finch, 102; pine siskin, 251; goldfinch, 231; towhee, 53; savannah sparrow, 77; vesper sparrow, 50; slate-colored junco, 1312; field sparrow, 154; white-throated sparrow, 318; fox sparrow, 5; swamp sparrow, 5; song sparrow, 119. **Total,** 65 species; 5829 individuals.—Frank Brown, George A. Bryant, Harry Bryant, John Carr, Mrs. W. C. Carr, Inez Coldwell, Bill Craft, Mrs. F. H. Craft, Larry Crawford, Mrs. R. D. Douglas, Ethel McNairy, Mr. and Mrs. H. L. Medford, Hugh Medford, Jr., Oscar Paris, Mr. and Mrs. George Perrett, Etta Schiffman, Mrs. Edith Settan, Mrs. R. E. Settan, Archie D. Shaftsbury, George A. Smith, Mr. and Mrs. Charles Swart, Thatcher Townsend, John Trott, Jr. (members and guests Piedmont Bird Club).

133. Henderson, N.C. [geographical area covered?—Ed.]; (farmland and thickets 30%, deciduous woods 30%, pine woods 10%, small pond 10%, creek bottoms 20%).—Dec. 23; 7:15 a.m. to 4:15 p.m. Clear; slight wind in p.m.; temp. 30° to 50°. Seven observers in 2 parties. Total hours, 10. Turkey vulture, 12; black vulture, 8; red-shouldered hawk, 1; sparrow hawk, 1; flicker, 5; yellow-bellied sapsucker, 1; downy woodpecker, 8; blue jay, 3; crow, 28; chickadee, 21; titmouse, 7; white-breasted nuthatch, 4; red-breasted nuthatch, 2; brown-headed nuthatch, 1; brown creeper, 1; Carolina wren, 13; mockingbird, 5; robin, 1; bluebird, 14; golden-crowned kinglet, 1; ruby-crowned kinglet, 4; starling, 108; pine warbler, 1; English sparrow, 7; meadowlark, 21; red-wing, 5; cowbird, 75; cardinal, 31; purple finch, 23; goldfinch, 97; towhee, 8; junco, 201; chipping sparrow, 2; field sparrow, 60; white-throated sparrow, 74; fox sparrow, 3; song sparrow, 59. **Total,** 37 species; 916 individuals.—Mrs. A. W. Bachman, Mrs. T. C. Gill, Mrs. A. J. Davis, Claudia Hunter, Ruth Carter, Garnette Myers, Mariel Gary (Henderson Bird Club).

134. Morehead City, Beaufort, and Atlantic Beach, N.C. (salt marsh and shore 40%, open water in bay, sound, and brackish ponds 50%, myrtle, yaupon, and 14-ft. scrub cedar thickets 10%).—Dec. 21. Hard rain from 6:30 to 8 a.m., overcast with heavy fog until 10:30; clearing slowly until 3 p.m.; light NE to E wind; temp. 48° to 62° F. Two observers together. Total hours, 7 (including 1 hour in Cub observation plane flying over area); total miles on ground, 25 (3 on foot, 22 by car). Common loon, 7; horned grebe, 9; pied-billed grebe, 2; double-crested cormorant, 5; great blue heron, 26; Am. egret, 6; mallard, 14; black duck, 44; pintail, 38; wood duck, 6; scaup, 9; golden-eye, 3; buffle-head, 63; hooded merganser, 3; red-breasted merganser, 9; turkey vulture, 8; black vulture, 3; bald eagle, 16; marsh hawk, 8; osprey, 2 [no details—Ed.]; sparrow hawk, 2; killdeer, 2; willet, 2; greater yellow-legs, 7; sanderling, 31; herring gull, 4500 (est.); ring-billed gull, 14; Bonaparte's gull, 38; mourning dove, 1; belted kingfisher, 2; flicker, 1; horned lark, 4; Am. crow, 46; fish crow, 2; Carolina wren, 1; mockingbird, 3; bluebird, 7; shrike, 3; starling, 18; myrtle warbler, 4; English sparrow, 35; meadowlark, 18; red-wing, 250 (est.); purple grackle, 13; cardinal, 1; towhee, 2; seaside sparrow, 2; slate-colored junco, 7; field sparrow, 12; white-throated sparrow, 2; song sparrow, 5. **Total,** 51 species; approximately 5316 individuals. (Particular emphasis was placed on waterfowl but unusually small numbers were seen.)—Franklin Anderson, R. L. Wolff.

135. Mt. Olive, N.C. (Wooten, Williams, and Brandon farms exclusively; open fields 50%, pine woods 10%, mixed pine and deciduous woods 35%, small ponds 5%).—Dec. 22; dawn to dusk, plus one 10 p.m. observation. Fair; temp. 32° to 45°; light wind. One observer. Total hours, 11; total miles, 10 (on foot). Pied-billed grebe, 2; turkey vulture, 5; black vulture, 14; Cooper's hawk, 1; red-tailed hawk, 2; red-shouldered hawk, 4; marsh hawk, 3; pigeon

hawk, 1 (seen at close range, perched and in flight); sparrow hawk, 6; bob-white, 13; killdeer, 4; mourning dove, 24; great horned owl, 1; screech owl, 1; belted kingfisher, 2; flicker, 32; pileated woodpecker, 1; red-bellied woodpecker, 8; yellow-bellied sapsucker, 2; hairy woodpecker, 1; downy woodpecker, 11; phoebe, 16; blue jay, 6; crow, 15; Carolina chickadee, 7; tufted titmouse, 9; white-breasted nuthatch, 4; brown-headed nuthatch, 5; brown creeper, 5; house wren, 1; winter wren, 1; Carolina wren, 12; mockingbird, 7; catbird, 1; brown thrasher, 5; robin, 465 (partly est.); hermit thrush, 8; bluebird, 36; blue-gray gnatcatcher, 1 (recognized by song, white on tail, and actions); golden-crowned kinglet, 22; ruby-crowned kinglet, 16; cedar waxwing, 53; shrike, 5; starling, 95; myrtle warbler, 41; pine warbler, 1; western palm warbler, 1; yellow-throat, 1; English sparrow, 250; meadowlark, 65; red-wing, 215; cowbird, 10; cardinal, 14; purple finch, 1; goldfinch, 175; towhee, 28; savannah sparrow, 37; vesper sparrow, 1; lark sparrow, 1 (white on tip of tail noted, observed at 40 ft. through 8x32 bincoulars, characteristic face also noted); junco, 90; chipping sparrow, 26; field sparrow, 70; white-throated sparrow, 120 (est.); fox sparrow, 1; swamp sparrow, 2; song sparrow, 110 (est.). **Total,** 66 species; about 2193 individuals.—Bob Holmes III.

136. Raleigh, N.C. (practically same area as previous counts; lakes and small ponds 40%, mixed pine and deciduous woodland 15%, deciduous woodland 25%, pine woodland 10%, open fields 10%).—Dec. 27; 7:30 a.m. to 5:30 p.m. Clear; mostly calm; temp. 40° to 60° F.; ground bare; water open except in sheltered places. Sixteen observers in 5 parties. Total hours, 27 (24 on foot, 3 by car); total miles, 35 (27 on foot, 8 by car). Horned grebe, 1; pied-billed grebe, 1; great blue heron, 1; little blue heron, 1; mallard, 10; black duck, 50; gadwall, 4; Am. pintail, 1; green-winged teal, 2; ring-necked duck, 200; lesser scaup, 23; Am. golden-eye, 2; buffle-head, 10; ruddy duck, 6; hooded merganser, 8; turkey vulture, 10; Cooper's hawk, 1; red-tailed hawk, 1; marsh hawk, 1; sparrow hawk, 2; bob-white, 23; killdeer, 6; woodcock, 1; mourning dove, 4; kingfisher, 7; flicker, 11; red-bellied woodpecker, 4; red-headed woodpecker, 2; yellow-bellied sapsucker, 1; hairy woodpecker, 3; downy woodpecker, 7; phoebe, 2; blue jay, 42; crow, 29; chickadee, 38; tufted titmouse, 20; white-breasted nuthatch, 6; red-breasted nuthatch, 3; brown creeper, 7; winter wren, 1; Carolina wren, 19; mockingbird, 31; brown thrasher, 3; hermit thrush, 4; bluebird, 48; golden-crowned kinglet, 17; ruby-crowned kinglet, 3; cedar waxwing, 50; shrike, 1; starling, 175; myrtle warbler, 10; pine warbler, 10; yellow palm warbler, 2; English sparrow, 86; meadowlark, 29; cowbird, 25; cardinal, 44; purple finch, 22; redpoll, 8; pine siskin, 18; goldfinch, 46; red-eyed towhee, 21; savannah sparrow, 10; vesper sparrow, 1; slate-colored junco, 117; field sparrow, 12; white-throated sparrow, 79; swamp sparrow, 3; song sparrow, 71. **Total,** 69 species; 1517 individuals.—D. L. Wray, Mrs. Charlotte H. Green, F. B. Meacham, G. M. Garren, Robt. Overing, C. H. Bostian, Jo Ann Meacham, Frank Meacham, Virginia Pickelle, Jackie Johnson, Miss Buffaloe, E. W. Winkler, Mrs. J. Y. Phelps and girl scout troop, Roberta Dixon, Sam Braxton, John David Wray.

137. Statesville (Iredell Co.), N.C. (Oakwood Cemetery Sanctuary 25%, mixed woodlands 25%, farm 35%, section of third creek 15%).—Dec. 27; 9:30 a.m. to 6 p.m. Cloudy, strong SW wind, clearing at noon; temp. 38° at start; ground bare. Six observers together, 1 alone. Total hours, 7½ (on foot); total miles, 7 (on foot). Turkey vulture, 20; Cooper's hawk, 1; red-tailed hawk, 1; red-shouldered hawk, 3; sparrow hawk, 2; bob-white, 9; mourning dove, 207; flicker, 6; red-bellied woodpecker, 2; yellow-bellied sapsucker, 3; hairy woodpecker, 1; downy woodpecker, 5; phoebe, 2; horned lark, 200 (est.); blue jay, 30; crow, 15; Carolina chickadee, 18; tufted titmouse, 20; white-breasted nuthatch, 3; brown creeper, 3; Carolina wren, 10; mockingbird, 10; brown thrasher, 3; robin, 3; hermit thrush, 2; bluebird, 80; golden-crowned kinglet, 27; ruby-crowned kinglet, 25; migrant shrike, 10; starling, 150; myrtle warbler, 18; pine warbler, 5; English sparrow, 30; meadowlark, 40; purple grackle, 14; cardinal, 36; goldfinch, 50; towhee, 10; slate-colored junco, 175; field sparrow, 20. **Total,** 40 species; approximately 1269 individuals.—Jane Eliason, Nancy Eliason, Vern Floyd, W. G. Templeton, Ed. Floyd, Tommy Long, "Pooche" Miller (the latter 3 are juniors).

138. Washington, N.C. (same areas as in previous counts; river shore 20%, field borders and hedgerows 60%, open fields 10%, mixed woods 10%).—Dec. 23. Clear, heavy frost in a.m. and calm; wind SSE, 1-5 m.p.h. in p.m.; temp. 30° to 50°; ground bare, water open. Three observers together. Total hours, 8 (on foot); total miles, 8½ (on foot). Cooper's hawk, 1; red-shouldered hawk, 2; bald eagle, 1; marsh hawk, 1; sparrow hawk, 1; killdeer, 1 (heard); least (?) sandpiper, 1; herring gull, 16; mourning dove, 4; belted kingfisher, 2; flicker, 4; red-headed woodpecker, 1; downy woodpecker, 2; phoebe, 6; blue jay, 3; crow, 16; chickadee, 3; tufted titmouse, 4; white-breasted nuthatch, 1; Carolina wren, 10; mockingbird, 10; catbird, 2; brown thrasher, 1; robin, 87; bluebird, 3; ruby-crowned kinglet, 4; shrike, 1; starling, 20; myrtle warbler, 68; palm warbler, 5; English

sparrow, 12; meadowlark, 132; red-wing, 1000 (est.); purple grackle, 25 (est.); cardinal, 6; goldfinch, 10; towhee, 4; junco, 19; chipping sparrow, 23; field sparrow, 15; white-throated sparrow, 52; fox sparrow, 4; swamp sparrow, 5; song sparrow, 14. **Total,** 44 species; about 1602 individuals.—Mary Shelburne Crawford, Mrs. E. M. Brown, Joe Biggs.

139. Wilmington (New Hanover Co.), N.C. (second Christmas count in area; Wrightsville Beach and Sound, Masonboro, Greenville Sounds, Winter Park, Greenfield Lake; mixed pine and deciduous woodland 70%, pasture 5%, lake 10%, beach and salt marsh 15%).—Dec. 28; dawn to dusk. Clear to partly cloudy; wind moderate S to SW, increasing to 16 m.p.h. in p.m.; temp. 49° to 71°; ground bare; water open. Eighteen observers in 5 parties. Total hours, 30 (on foot); total miles, 15 (on foot). Common loon, 1; red-throated loon, 4; horned grebe, 1; pied-billed grebe, 16; greater shearwater, 1 (watched for several minutes from drawbridge over inland waterway at Wrightsville Sound; seemed in distress and made no attempt to swim—Mrs. Turnbull) [no further details given to substantiate this interesting record; possibility of Cory's shearwater eliminated? —Ed.]; gannet, 2; double-crested cormorant, 10; great blue heron, 5; Ward's heron, 1 (also seen on Dec. 11 and 15; head light and legs shiny as if they were not just black—Craft, Trott, Mr. and Mrs. Appleberry); Am. egret, 12; snowy egret, 2; Louisiana heron, 3; little blue heron, 3; green heron, 3; black-crowned night heron, 15; mallard, 4; wood duck, 8; ring-necked duck, 89; lesser scaup, 3; buffle-head, 26; red-breasted merganser, 34; turkey vulture, 1; black vulture, 2; sharp-shinned hawk, 1; Cooper's hawk, 1; red-shouldered hawk, 1; bald eagle, 1; osprey, 2; sparrow hawk, 5; bob-white, 1; clapper rail, 2; coot, 61; killdeer, 43; black-bellied plover, 4; greater yellow-legs, 1; sanderling, 5; herring gull, 150 (est.); ring-billed gull, 250 (est.); laughing gull, 10; Bonaparte's gull, 3; Forster's tern, 4; common tern, 16 [no details —Ed.]; dovekie, 1 (flew directly overhead with very rapid wing beats; back and head jet black, wings black spotted with white; observer has handled live dovekies in Mass.—Mrs. Turnbull); mourning dove, 9; belted kingfisher, 20; flicker, 16; red-bellied woodpecker, 5; yellow-bellied sapsucker, 3; downy woodpecker, 4; kingbird, 1 (seen at 15 ft. in swamp at Winter Park with 4x glasses; white belly, slate-colored tail with white band—Hall); phoebe, 10; blue jay, 20; crow, 35; fish crow, 2; Carolina chickadee, 30; tufted titmouse, 45; red-breasted nuthatch, 23; brown-headed nuthatch, 25; brown creeper, 1; house wren, 2; Carolina wren, 29; short-billed marsh wren, 2; mockingbird, 23; catbird, 4; brown thrasher, 8; robin, 88; hermit thrush, 11; bluebird, 25; blue-gray gnatcatcher, 10; golden-crowned kinglet, 38; ruby-crowned kinglet, 52; cedar waxwing, 20; shrike, 10; starling, 300 (est.); blue-headed vireo, 1; myrtle warbler, 500 (est.); pine warbler, 75 (est.); palm warbler, 1; yellow-throat, 3; English sparrow, 200 (est.); meadowlark, 7; red-wing, 185 (est.); purple grackle, 4; cardinal, 23; purple finch, 15; pine siskin, 25; goldfinch, 24; towhee, 22; savannah sparrow, 10; seaside sparrow, 1; slate-colored junco, 250 (est.); chipping sparrow, 50 (est.); field sparrow, 1; white-throated sparrow, 200 (est.); fox sparrow, 14; swamp sparrow, 8; song sparrow, 100 (est.). **Total,** 97 species and subspecies; about 3398 individuals. (Additional species seen Dec. 29: Am. bittern, 1; Am. merganser, 1; red-backed sandpiper, 10; oyster-catcher, 1; Am. scoter, 3; brown pelican, 1; royal tern, 5; baldpate, 3; winter wren, 1; Mississippi kite, 1 (Masonboro Inlet—Hall) [no further details — Ed.].) — Sandy McCulloch, George Williams, Bill Craft, John Carr, John Trott, Jr., Bob Holmes III, Thomas Hall, Jim Smith, Steve Smith, Ruth Loman, Anne Blackwell Payne, K. R. Wheeler, Helen Lovering, Mrs. W. C. Mebane, Claude McAllister, Mrs. Sibbel Turnbull, Mr. and Mrs. Cecil Appleberry.

140. Windom, N.C. (farms of L. H. Hutchins, Mack Silver, Mrs. C. P. Gibson, and adjacent territory; open farmland 50%, white pine woodland 2%, pastures 18%, deciduous forests 30%). —Dec. 21; 8 a.m. to dusk. Cloudy; temp. 30° to 42° F.; wind E, 25 m.p.h. Four observers in 2 parties. Total hours, 16; total miles, 16 (all on foot). Cooper's hawk, 1; mourning dove, 5; downy woodpecker, 2; phoebe, 2; blue jay, 7; crow, 60; chickadee, 10; tufted titmouse, 3; Carolina wren, 11; robin, 1; bluebird, 18; golden-crowned kinglet, 1; starling, 4; English sparrow, 142; cardinal, 25; goldfinch, 35; red-eyed towhee, 1; junco, 71; field sparrow, 35; song sparrow, 26. **Total,** 20 species; 460 individuals.—Rheba Hughes, Paul Hughes, Roosevelt Hughes, James Hutchins.

141. Winston-Salem, N.C. (Reynolda, city watershed, parks, area surrounding city; woodlands 45%, open fields 45%, pastureland 5%, water 5%).—Dec. 26; 7:30 a.m. to 5:30 p.m. Cloudy in a.m., clearing in p.m.; temp. 35° to 59°; calm to light winds; ground moist. Six parties, 17 observers. Total hours, 29; total miles, 80 (30 by foot, 50 by car). Great blue heron, 1; Canada goose, 12; mallard, 4; black duck, 5; ring-necked duck, 20; buffle-head, 1; turkey vulture, 3; black vulture, 5; sharp-shinned hawk, 3; Cooper's hawk, 2; sparrow hawk, 1; bob-white, 84; killdeer, 10; mourning dove, 25; belted kingfisher, 2; flicker, 11; red-bellied woodpecker, 2; red-headed woodpecker,

8; hairy woodpecker, 2; downy woodpecker, 5; blue jay, 42; crow, 50; Carolina chickadee, 40; tufted titmouse, 24; white-breasted nuthatch, 7; red-breasted nuthatch, 5; brown creeper, 8; Carolina wren, 21; mockingbird, 26; robin, 1; hermit thrush, 5; bluebird, 29; golden-crowned kinglet, 101; ruby-crowned kinglet, 7; cedar waxwing, 10; shrike, 3; starling, 421 (est.); myrtle warbler, 9; pine warbler, 3; English sparrow, 196 (est.); meadowlark, 22; purple grackle, 64; cardinal, 80; pine siskin, 58; goldfinch, 115; red-eyed towhee, 17; junco, 205; field sparrow, 110; white-throated sparrow, 101; fox sparrow, 1; song sparrow, 100. **Total,** 51 species; approximately 2087 individuals.—James L. Stephenson, William L. Anderson, Jr., Edwin B. Anderson, Rev. Douglas Rights, Burton Rights, Graham Rights, Fred Stovall, Donald Stovall, George Parrish, Robert H. Witherington, Fred S. Hill, Jr., Robert N. White, Orville White, Charles Babcock, Jr., James Spaugh, Larry Prevost, Henry Magie.

142. Charleston, S.C. (Bulls Island, adjacent waters and marshes, mainland opposite, back to Wando River, as in preceding years; farmland 20%, fresh-water ponds and wooded swamps 25%, woods, mixed and pine 25%, salt-water creeks, marshes, and flats 25%, dunes and ocean front 5%).—Dec. 26; dawn to dusk. Bright and sunny; temp. 33° to 64° F.; wind (in p.m. only) SW, 5-10 m.p.h.; fields damp in early morning, from rather heavy frost. Sixteen observers in 4 parties (2 additional observers in p.m.). Total hours, 28 (22 on foot, 4 by car, 2 by boat); total miles, 82 (22 on foot, 54 by car, 6 by boat). Common loon, 15; red-throated loon, 4; horned grebe, 13; pied-billed grebe, 7; brown pelican, 4; gannet, 27; cormorant, 22; great blue heron, 20; Am. egret, 7; snowy egret, 8; Louisiana heron, 10; little blue heron, 24; mallard, 221; black duck, 618±; gadwall, 67; baldpate, 208; pintail, 271±; green-winged teal, 152; blue-winged teal, 44; shoveller, 90; wood duck, 30; redhead, 2; ring-necked duck, 185±; canvas-back, 4; scaup, 55; golden-eye, 1; Am. scoter, 12; ruddy duck, 8; hooded merganser 14; red-breasted merganser, 4; turkey vulture, 38; black vulture, 20; sharp-shinned hawk, 2; Cooper's hawk, 4; red-tailed hawk, 11; red-shouldered hawk, 22; broad-winged hawk, 1 (B.H. III, A.S., Jr.) [no further details—Ed.]; rough-legged hawk, 1 (N.S., E.B.C.); bald eagle, 9; marsh hawk, 15; osprey, 1; duck hawk, 2; sparrow hawk, 5; turkey, 1; clapper rail, 23; Florida gallinule, 3; coot, 1102±; oyster-catcher, 114; semipalmated plover, 18; killdeer, 7; black-bellied plover, 18; ruddy turnstone, 2; woodcock, 1; Wilson's snipe, 1; Hudsonian curlew, 2; spotted sandpiper, 3; willet, 36; greater yellow-legs, 4; red-backed sandpiper, 18; dowitcher, 20; semipalmated sandpiper, 22; western sandpiper, 10; marbled godwit, 4; sanderling, 11; herring gull, 142±; ring-billed gull, 218±; laughing gull, 2; Bonaparte's gull, 2; Forster's tern, 31; Caspian tern, 10; mourning dove, 20; screech owl, 1; barred owl, 1; belted kingfisher, 14; flicker, 27; pileated woodpecker, 29; red-bellied woodpecker, 24; yellow-bellied sapsucker, 21; hairy woodpecker, 9; downy woodpecker, 9; red-cockaded woodpecker, 1; phoebe, 34; *Empidonax* (sp.?), 1 (P.G.) [no further details—Ed.]; tree swallow, 12; blue jay, 10; crow, 289+; fish crow, 451±; Carolina chickadee, 123±; tufted titmouse, 46; white-breasted nuthatch, 3; red-breasted nuthatch, 1; brown-headed nuthatch, 15; brown creeper, 6; house wren, 10; winter wren, 4; Carolina wren, 46; long-billed marsh wren, 5; short-billed marsh wren, 4; mockingbird, 31; catbird, 9; brown thrasher, 19; robin, 856+; hermit thrush, 8; bluebird, 63; blue-gray gnatcatcher, 1; golden-crowned kinglet, 48; ruby-crowned kinglet, 80±; pipit, 137+; cedar waxwing, 24; shrike, 6; starling, 12; white-eyed vireo, 1; blue-headed vireo, 4 (1 identified as *alticola*—E.A.W.) [not stated how separated from *Vireo s. solitarius*—Ed.]; black and white warbler, 1 (A.S., Jr., *et. al.*); myrtle warbler, 628+; yellow-throated warbler, 2; pine warbler, 80±; western palm warbler, 17; yellow-throat, 5; English sparrow, 2; meadowlark, 69; red-wing, 506±; rusty blackbird, 14; boat-tailed grackle, 61; Florida (?) grackle, 72; cowbird, 8; cardinal, 48; purple finch, 8; pine siskin, 2; goldfinch, 73; red-eyed towhee, 70; white-eyed towhee, 1; savannah sparrow, 39; sharp-tailed sparrow, 12; seaside sparrow, 2; vesper sparrow, 19; junco, 35; chipping sparrow, 20; field sparrow, 29; white-throated sparrow, 122+; fox sparrow, 4; swamp sparrow, 18; song sparrow, 114+. **Total**, 144 species; about 8699 individuals. About 75% of the oyster-catcher population not located owing to unfavorable tidal conditions; likewise not located was 1 long-billed curlew known to be in the area.—Mrs. L. S. Barrington, E. B. Chamberlain, E. B. Chamberlain, Jr., George Cooley, Robin Cooley, Peter Gething, Harold Guerard, Jr., Bob Holmes III, Peter Manigault, M. L. McCrae, James Mosimann, George Rabb, Newton Seebeck, Elizabeth Simons, Alexander Sprunt, Jr., Alexander Sprunt III, Thomas Uzzell, E. A. Williams.

143. Columbia, S.C. (center of Columbia, Richland Co., to West Columbia, Horseshoe Lake, Hendrix's Pond, and Fisher's Pond in Lexington Co., 7 miles west of Columbia; other areas in Lexington Co. up to 12 miles west of Columbia; urban territory 0.5%, pine woods 40%, deciduous woods 15%, cultivated fields 20%, broom fields 10%, lake shores 14%, cattail marsh 0.5%).—Dec. 26; 8 a.m. to dusk. Mostly clear; wind W, light to moderate; temp.

37° at start, 60° at return. Three observers. Total hours, 7¼; total miles, 38 (8 on foot, 30 by car). Green-winged teal, 3; ring-necked duck, 1; hooded merganser, 2; turkey vulture, 18; black vulture, 9; killdeer, 6; dowitcher, 3; mourning dove, 6; flicker, 2; kingbird, 1 (observed for about 90 seconds in excellent light with 9x glasses; seen at 100-125 ft. on top of wire fence; bird flew out twice to capture insects in typical flycatcher manner; it appeared to be very dark above with a narrow white band across tail, but I was not able to get a good look at underparts; when perched the bird remained quite motionless—B.S.M.); phoebe, 3; blue jay, 3; crow, 8; Carolina chickadee, 8; tufted titmouse, 5; brown-headed nuthatch, 4; brown creeper, 1; Carolina wren, 2; mockingbird, 2; brown thrasher, 1; hermit thrush, 3; bluebird, 21; ruby-crowned kinglet, 34; loggerhead shrike, 1; starling, 156; pine warbler, 27; English sparrow, 6; cardinal, 11; red-eyed towhee, 6; vesper sparrow, 1; slate-colored junco, 48; tree sparrow, 1 (observed in dense undergrowth at about 15 ft.; seen at edge of small swampy area; chestnut crown and clear grayish breast, unmarked except for one conspicuous spot at center); chipping sparrow, 4; field sparrow, 49; white-throated sparrow, 6; swamp sparrow, 3; song sparrow, 8. **Total,** 37 species; 473 individuals.—B. Spencer Meeks, Jr., Mrs. P. B. Hendrix, J. W. Hendrix.

144. Spartanburg, S.C. (center of town to points 9 miles south and west; Lyman, Ezell woods, Duncan Park, Fairforest meadow; open farmlands 25%, town suburbs 20%, mixed woodlands 40%, fresh-water pond and marshes 15%).—Dec. 22. Clear; temp. 35° rising to 60°; wind NW, 2-15 m.p.h. Five observers in 2 parties. Total hours, 12 (10 on foot, 2 by car); total miles, 30 (10 on foot, 20 by car). Turkey vulture, 35; black vulture, 3; red-tailed hawk, 1; red-shouldered hawk, 2; marsh hawk, 1; sparrow hawk, 1; bob-white, 6; killdeer, 34; mourning dove, 28; flicker, 7; red-bellied woodpecker, 2; red-headed woodpecker, 3; yellow-bellied sapsucker, 1; downy woodpecker, 3; blue jay, 60; crow, 26; Carolina chickadee, 30; tufted titmouse, 15; brown creeper, 1; Carolina wren, 12; mockingbird, 9; brown thrasher, 4; hermit thrush, 1; bluebird, 12; golden-crowned kinglet, 35; ruby-crowned kinglet, 26; pipit, 46; loggerhead shrike, 6; starling, 2000 (est.); orange-crowned warbler, 6; myrtle warbler, 10; palm warbler, 4; English sparrow, 38; meadowlark, 25; cowbird, 3; cardinal, 28; purple finch, 11; goldfinch, 22; towhee, 34; savannah sparrow, 10; junco, 43; chipping sparrow, 10; field sparrow, 32; white-throated sparrow, 45; swamp sparrow, 6; song sparrow, 50. **Total,** 46 species; approximately 2786 individuals. — Gabriel Cannon, L. Carlisle, R. Crick, M. Hammond, R. Rupp.

145. Atlanta, Ga. (Silver Lake, Decatur, South River, city reservoir, and territory lying between).—Dec. 22; 7:30 a.m. to 6 p.m. Clear; slight wind in p.m.; temp. 30° to 48°. Twenty-three observers in 9 parties. Total hours, 63; total miles, 89. Loon, 1; pied-billed grebe, 8; green heron, 1 (same individual seen Dec. 26 and identification confirmed by T. D. Burleigh—Major); hooded merganser, 1; turkey vulture, 18; black vulture, 9; sharp-shinned hawk, 1; Cooper's hawk, 1; red-tailed hawk, 11; red-shouldered hawk, 7; sparrow hawk, 6; bob-white, 31; coot, 1; killdeer, 49; mourning dove, 46; barred owl, 1; belted kingfisher, 6; flicker, 26; pileated woodpecker, 2; red-bellied woodpecker, 26; red-headed woodpecker, 16; yellow-bellied sapsucker, 4; downy woodpecker, 22; hairy woodpecker, 5; phoebe, 9; horned lark, 2; blue jay, 176; crow, 124; Carolina chickadee, 38; tufted titmouse, 59; white-breasted nuthatch, 28; red-breasted nuthatch, 1 (Davis); brown-headed nuthatch, 19; brown creeper, 1; winter wren, 6; Bewick's wren, 1; Carolina wren, 46; mockingbird, 30; brown thrasher, 14; robin, 6; hermit thrush, 16; bluebird, 141; golden-crowned kinglet, 70; ruby-crowned kinglet, 36; Am. pipit, 36; cedar waxwing, 36; loggerhead shrike, 7; starling, 3100 (est.); blue-headed vireo, 1; myrtle warbler, 18; pine warbler, 26; palm warbler, 11; yellow-throat, 2; English sparrow, 39; meadowlark, 98; red-wing, 2600 (est.); grackle, 800 (est.); cardinal, 154; purple finch, 166; pine siskin, 58; goldfinch, 313; towhee, 194; savannah sparrow, 21; vesper sparrow, 9; slate-colored junco, 245; chipping sparrow, 212; field sparrow, 705; white-throated sparrow, 917; white-crowned sparrow, 1 (identified and collected —Johnston); fox sparrow, 17; swamp sparrow, 80; song sparrow, 646. **Total,** 72 species; about 11,634 individuals.—Glenn Bell, Mrs. B. N. Willingham, Mrs. H. M. Daniel, Mrs. J. E. Boyd, T. F. Davis, Jr., Mr. and Mrs. F. H. Collette, Mrs. Lewis Gordon, Harry Green, Branch Howe, Ray C. Werner, Tom Collum, Ed Collum, Ralph Ramsey, Jr., Lester Chambers, William W. Griffin, David W. Johnston, Russell Adams, Jack Petty, Jack Carusos, Buddy Robert, Robert Adams, Jimmy Major (members and guests Atlanta Bird Club).

146. Piedmont National Wildlife Refuge, Round Oak, Ga. (point on Ocmulgee River 1 mile northeast of Juliette down river to Juliette, along Hillsboro Road to Tribble tract, returning to headquarters via Fiddler's Rest; in p.m. to Round Oak, Hungerford's Lake, Bradley, Wayside, and Five Points, returning to headquarters via Caney Creek Road; abandoned farmland 10%, meadows and pastureland 50%, cultivated land 15%, artificial lakes, ponds, and river 10%, second-growth pine woodland 15%). —Dec. 22; 7 a.m. to 5 p.m. Clear; heavy frost;

very light SE wind, 2-4 m.p.h.; temp. 30° to 58°. One observer. Total hours afield, 11 (9 on foot, 2 by car); total miles, 66 (6 on foot, 60 by car). Pied-billed grebe, 1; turkey vulture, 56; black vulture, 151; Cooper's hawk, 1; red-tailed hawk, 4; red-shouldered hawk, 1; marsh hawk, 1; sparrow hawk, 2; bob-white, 12 (1 covey); mourning dove, 26; great horned owl, 2; flicker, 11; pileated woodpecker, 4; red-bellied woodpecker, 7; red-headed woodpecker, 1; yellow-bellied sapsucker, 2; downy woodpecker, 4; red-cockaded woodpecker, 3; phoebe, 9; blue jay, 26; crow, 51; Carolina chickadee, 14; tufted titmouse, 14; brown-headed nuthatch, 15; brown creeper, 1; house wren, 1; winter wren, 11; Carolina wren, 15; long-billed marsh wren, 3; short-billed marsh wren, 1; mockingbird, 12; brown thrasher, 6; robin, 25; hermit thrush, 17; bluebird, 33; golden-crowned kinglet, 7; ruby-crowned kinglet, 13; loggerhead shrike, 4; starling, 3; blue-headed vireo, 1; myrtle warbler, 9; pine warbler, 3; palm warbler, 50; yellow-throat, 2; English sparrow, 25; meadowlark, 86; red-wing, 250; cardinal, 17; purple finch, 9; goldfinch, 38; towhee, 37; savannah sparrow, 22; slate-colored junco, 50; chipping sparrow, 40; field sparrow, 50; white-throated sparrow, 70; fox sparrow, 1; swamp sparrow, 17; song sparrow, 50. **Total,** 59 species; 1397 individuals. (Seen in area Dec. 28: Bewick's wren, 1; cedar waxwing, 1; Dec. 25: Bachman's sparrow, 1.)—R. J. Fleetwood.

147. Sherwood and Birdsong Plantations (Grady Co.), Ga. (within 1500 acres; open fields and pastures 50%, pinelands and mixed hardwoods 30%, gum swamp and 5 ponds ranging in size from 1½ to 6 acres 20%).—Dec. 25; before dawn to dusk. Fair; temp. 43° to 60°; wind N, 0-10 m.p.h. Total hours, 12 (on foot); total miles, 13-15. Pied-billed grebe, 4; great blue heron, 1; baldpate, 13; wood duck, 115; turkey vulture, 14; black vulture, 23; sharp-shinned hawk, 1; Cooper's hawk, 3; red-tailed hawk, 8; red-shouldered hawk, 3; sparrow hawk, 3; bob-white, 12 (1 covey—others heard); wild turkey, 81 (composite group of 61 and another of 20); killdeer, 13; mourning dove, 108 (partly est.); great horned owl, 4 (heard); barred owl, 5 (heard); belted kingfisher, 3; flicker, 17; pileated woodpecker, 5; red-bellied woodpecker, 10; red-headed woodpecker, 8; yellow-bellied sapsucker, 4; hairy woodpecker, 1; downy woodpecker, 3; red-cockaded woodpecker, 3; phoebe, 6; blue jay, 33; crow, 24; chickadee, 6; tufted titmouse, 4; white-breasted nuthatch, 6; house wren, 5; Carolina wren, 8; mockingbird, 8; brown thrasher, 5; robin, 319 (partly est.); hermit thrush, 3; bluebird, 52; ruby-crowned kinglet, 13; cedar waxwing, 65; loggerhead shrike, 1; starling, 770 (partly est.); white-eyed vireo, 2; blue-headed vireo, 1; myrtle warbler, 45; pine warbler, 61; palm warbler, 1; yellow-throat, 5; meadowlark, 36; red-wing, 266 (partly est.); grackle, 1; cardinal, 15; purple finch, 16; goldfinch, 48; towhee (both red-eyed and Howell's seen), 8; grasshopper sparrow, 1; vesper sparrow, 37; Bachman's sparrow, 3; junco, 2; chipping sparrow, 144; field sparrow, 14; white-throated sparrow, 50; swamp sparrow, 7; song sparrow, 15. **Total,** 65 species; about 2571 individuals. (Additional species seen during preceding 3 days: wood ibis, 1; woodcock, 4; Wilson's snipe, 1.)—Herbert L. Stoddard.

148. Tifton, Ga. (in Tift County within 10-mile diameter; 2 ponds of 5-8 acres 5%, mixed woodland near ponds 10%, wooded bottomland of Little and Alapaha Rivers 25%, open fields and pastures 25%, pineland, with undergrowth varying from wiregrass to broomsedge, gallberry, palmetto, and scrub oak 35%).—Dec. 26. Clear; wind less than 1 m.p.h.; temp. 34° at start. Two observers mostly together. Ring-necked duck, 3; turkey vulture, 11; black vulture, 46 (partly est.); red-tailed hawk, 2; red-shouldered hawk, 2; sparrow hawk, 1; bob-white, 14 (est., 1 covey); coot, 3; killdeer, 12; mourning dove, 18; great horned owl, 1 (heard); barred owl, 1 (heard); belted kingfisher, 1; flicker, 11; red-bellied woodpecker, 4; yellow-bellied sapsucker, 1; downy woodpecker, 1; phoebe, 10; blue jay, 11; crow, 7; chickadee, 1; tufted titmouse, 1; brown-headed nuthatch, 10; house wren, 10; winter wren, 1; Carolina wren, 12; short-billed marsh wren, 5 (observed at 3 and 4 ft.); mockingbird, 11; brown thrasher, 3; robin, 21; hermit thrush, 12; bluebird, 24; golden-crowned kinglet, 10; ruby-crowned kinglet, 24; pipit, 2; cedar waxwing, 32 (partly est.); loggerhead shrike, 2; starling, 14; white-eyed vireo, 1 (collected; third winter record); blue-headed vireo, 3; black and white warbler, 1; orange-crowned warbler, 1; myrtle warbler, 126 (partly est.); pine warbler, 6; palm warbler (both western and yellow; 1 typical example of the latter collected), 8; yellow-throat, 17; English sparrow, 1; meadowlark, 161 (partly est.); red-wing, 1; cardinal, 36; purple finch, 4; goldfinch, 16; towhee (both red-eyed and Alabama forms), 18; savannah sparrow, 8; Henslow's sparrow, 4 (3 collected; a very uncommon species); vesper sparrow, 4; pine-woods sparrow, 1 (collected; referable to this form); chipping sparrow, 81 (partly est.); field sparrow, 3; white-throated sparrow, 42; swamp sparrow, 16; song sparrow, 39. **Total,** 62 species; about 953 individuals.—Willard L. Gaulding, Jr., Robert A. Norris.

149. Daytona Beach, Fla. (peninsula from Zelda Blvd. to Inlet, river road and beach; mainland 9½ miles west on Deland Road to fire tower, south to just beyond Spruce Creek;

pinelands 35%, lagoons and pond 25%, beach 20%, scrub 10%, palmetto-deciduous growth 5%, fields and town streets 5%).—Dec. 27; 6:30 a.m. to 6 p.m. Fair; temp. 45° to 74°; wind NW less than 1 m.p.h. in a.m., SE to NE 8-12 m.p.h. in p.m. Seventeen observers in 5 parties. Total hours, 23½; total miles, 68½ (57 by car, 11½ on foot). Common loon, 3; horned grebe, 2; pied-billed grebe, 3; brown pelican, 794; cormorant, 126; Ward's heron, 9; Am. egret, 43; snowy egret, 5; Louisiana heron, 106; little blue heron, 3; black-crowned night heron, 3; wood ibis, 1; lesser scaup, 125; red-breasted merganser, 22; turkey vulture, 2; black vulture, 13; red-shouldered hawk, 4; bald eagle, 2; marsh hawk, 2; osprey, 1; sparrow hawk, 7; Florida gallinule, 2; coot, 6; semipalmated plover, 5; killdeer, 12; black-bellied plover, 9; ruddy turnstone, 140; spotted sandpiper, 2; knot, 100; semipalmated sandpiper, 3; sanderling, 249; herring gull, 66; ring-billed gull, 775; laughing gull, 257; Bonaparte's gull, 7; Forster's tern, 92; royal tern, 191; Cabot's tern, 1; Caspian tern, 1; black skimmer, 1167; mourning dove, 25; ground dove, 16; belted kingfisher, 16; red-bellied woodpecker, 6; red-headed woodpecker, 2; yellow-bellied sapsucker, 3; hairy woodpecker, 1; downy woodpecker, 2; phoebe, 27; tree swallow, 3500 (est.); blue jay, 12; crow, 6; fish crow, 42; chickadee, 3; tufted titmouse, 15; brown-headed nuthatch, 2; house wren, 8; Carolina wren, 11; mockingbird, 45; catbird, 8; brown thrasher, 2; robin, 32; bluebird, 28; blue-gray gnatcatcher, 5; ruby-crowned kinglet, 5; loggerhead shrike, 21; white-eyed vireo, 2; black and white warbler, 1; myrtle warbler, 98; yellow-throated warbler, 3; pine warbler, 1; prairie warbler, 2; western palm warbler, 12; yellow-throat, 3; English sparrow, 1; meadowlark, 60; red-wing, 11; purple grackle, 3; cardinal, 15; goldfinch, 110; towhee, 9; savannah sparrow, 9; chipping sparrow, 2; song sparrow, 1. **Total,** 84 species; about 8547 individuals. (Seen in area Dec. 26: green heron, 1; Dec. 28: red-tailed hawk, 1; flicker, 4; Dec. 29: gannet, 3.)—Mr. and Mrs. F. B. Rich, Mr. and Mrs. H. F. Kortheuer, Mrs. J. W. Remer, Mrs. L. C. Trench, Mrs R. N. Dickie, Mrs. E. Ames, Eva M. Porter, Mary A. Walbran, Elizabeth L. Mead, Martha A. Porter, Ida E. Warden, Hazel W. Graves, Celia Roberts, Lois R. Wilson, Rosella S. Ames (Halifax River Bird Club).

150. Monroe, Fla. (same area as in 1943 and 1945; 16 miles on South Loop, 14 miles on main Tamiami Trail; cypress swamp and everglades 99%, pine woods 1%).—Dec. 28. Clear in a.m., cloudy in p.m.; temp. 68° to 75°; wind S, 5 m.p.h. in p.m. Three observers, separate on foot, together in car. Total hours, 8 (4 on foot, 4 by car); total miles, 30 (16 on foot, 14 by car). Pied-billed grebe, 2; water-turkey, 8; Ward's heron, 38; Am. egret, 116; snowy egret, 2; Louisiana heron, 10; little blue heron, 62; green heron, 6; black-crowned night heron, 25; wood ibis, 2; white ibis, 199; turkey vulture, 103; black vulture, 22; red-tailed hawk, 1; red-shouldered hawk, 23; marsh hawk, 1; osprey, 1; sparrow hawk, 2; limpkin, 8; Florida gallinule, 6; coot, 2; killdeer, 2; barred owl, 6; whip-poor-will, 1; belted kingfisher, 49; flicker, 1; pileated woodpecker, 5; red-bellied woodpecker, 23; downy woodpecker, 3; crested flycatcher, 17; phoebe, 15; tree swallow, 49; blue jay, 1; crow, 36; tufted titmouse, 2; house wren, 12; Carolina wren, 27; short-billed marsh wren, 1; mockingbird, 22; catbird, 7; robin, 21; bluebird, 7; blue-gray gnatcatcher, 98; ruby-crowned kinglet, 2; white-eyed vireo, 26; blue-headed vireo, 3; parula warbler, 1; myrtle warbler, 22; yellow-throated warbler, 3; pine warbler, 11; prairie warbler, 5; western palm warbler, 43; oven-bird, 1; yellow-throat, 71; meadowlark, 7; red-wing, 2; boat-tailed grackle, 10; purple grackle, 378; cardinal, 29; painted bunting, 4; goldfinch, 22; towhee, 6; swamp sparrow, 2. **Total,** 63 species; 1692 individuals.—Charles Harrington, Louis A. Stimson, Robert A. Woodmansee.

151. Myakka River State Park, Fla. (parts of Sarasota and Manatee counties; 6 miles east of park on Route 220 to main gate, north and south of main gate within park; prairie with ponds, river, and swamps 60%, woodland, live oak, and cabbage palm 40%).—Dec. 28; 7 a.m. to 3 p.m. Mist and no wind until 10 a.m.; then cloudy with occasional sunshine until 1:30 p.m., showers from then on; temp. 70° to 77° F.; wind S, 1-8 m.p.h. Three observers together (accompanied for 8 miles by State Park Supt. Allen Crowley). Total hours, 8 (by car); total miles, 22. Pied-billed grebe, 3; cormorant, 1; water-turkey, 11; man-o'-war-bird, 1; Ward's heron, 11; Am. egret, 34; snowy egret, 52; Louisiana heron, 27; little blue heron, 200 (est.); wood ibis, 300 (est.); white ibis, 75 (est.); mallard, 18; black duck, 167 (partly est.); pintail, 76; blue-winged teal, 130 (partly est.); hooded merganser, 27; Am. merganser, 5; red-breasted merganser, 50 (est.); turkey vulture, 7; black vulture, 9; red-shouldered hawk, 1; marsh hawk, 1; Audubon's caracara, 1 (seen by all); sparrow hawk, 2; bob-white, 44; sandhill crane, 5 (seen with Park Supt.); killdeer, 42; greater yellow-legs, 17; least sandpiper, 3; dowitcher, 19; ring-billed gull, 20 (est.); common tern, 18; mourning dove, 12; ground dove, 15; great horned owl, 1; barred owl, 1; kingfisher, 5; flicker, 4; pileated woodpecker, 1; red-bellied woodpecker, 3; phoebe, 7; blue jay, 1; crow, 15; fish crow, 3; tufted titmouse, 3; house wren, 1; Carolina wren, 1; mockingbird, 2; catbird, 2; brown thrasher, 1; robin, 5; bluebird, 1; blue-gray gnatcatcher, 5; loggerhead shrike, 1; myrtle warbler, 3; yellow-throated warbler, 1; palm

warbler, 80 (est.); yellow-throat, 1; meadowlark, 12; red-wing, 49; boat-tailed grackle, 7; cardinal, 2; goldfinch, 1; red-eyed towhee, 2; grasshopper sparrow, 7; swamp sparrow, 1; song sparrow, 1. **Total,** 67 species; about 1634 individuals. (Burrowing owls seen Dec. 27 by Supt. Crowley.)—Paula Dillman, Grace McCarthy, Mary B. Brown (members Bradenton Bird Club).

152. Orlando, Fla. (south and west side of Lake Ivanhoe, around lakes Eola and Lucerne and Park Lake, and suburban areas).—Dec. 28. Cloudy to clear; temp. 64° to 76°; wind 0-5 m.p.h. Three observers. Total hours, 9; total miles, 2 (on foot). Pied-billed grebe, 47; cormorant, 14; Ward's heron, 1; snowy egret, 1; green heron, 3; mallard, 32; Florida duck, 1; baldpate, 1; ring-necked duck, 352; scaup, 996; ruddy duck, 48; sparrow hawk, 1; bob-white, 6; purple gallinule, 1; coot, 828; killdeer, 13; herring gull, 12; ring-billed gull, 383; royal tern, 1; mourning dove, 5; ruby-throated hummingbird, 1; belted kingfisher, 8; flicker, 8; red-bellied woodpecker, 4; red-headed woodpecker, 3; phoebe, 3; tree swallow, 2; blue jay, 24; crow, 202; fish crow, 40; chickadee, 6; tufted titmouse, 5; house wren, 1; Carolina wren, 2; short-billed marsh wren, 1; mockingbird, 7; brown thrasher, 3; blue-gray gnatcatcher, 3; ruby-crowned kinglet, 4; loggerhead shrike, 4; myrtle warbler, 27; yellow-throated warbler, 1; pine warbler, 3; yellow palm warbler, 14; yellow-throat, 3; English sparrow, 33; red-wing, 104; boat-tailed grackle, 103; purple grackle, 5; cardinal, 5; goldfinch, 3; towhee, 2; swamp sparrow, 8; song sparrow, 1. **Total,** 54 species; 3389 individuals.—A. H. Ward, A. H. Ward, Jr., Oliver P. Medsger.

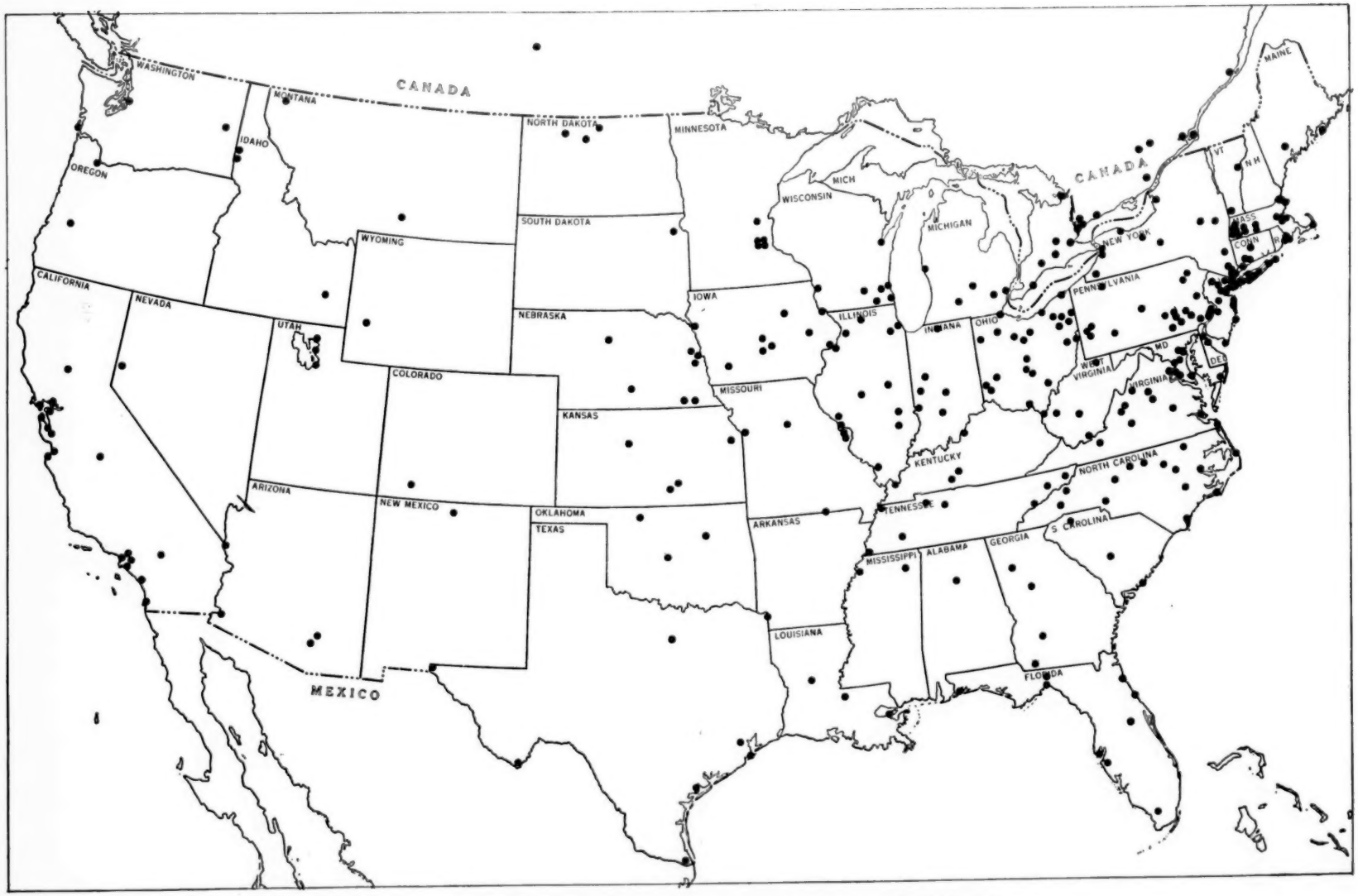
153. Pensacola, Fla. (same territory as for many years; city and suburban areas 10%, open sound and bay and bay shores [largely by car] 25%, scrub oak barrens 2%, mature live oak and deciduous woods 18%, fields, pastures, and cut-over woodland [mostly by car] 16%, fresh-water wooded swamps 2%, fresh-water open ponds 6%, salt marshes 1%, Gulf beach and dunes 3%, pine woods 17%).—Dec. 22; 7:15 a.m. to 5:30 p.m. Clear; wind NE, 10 m.p.h. in a.m. diminishing to flat calm in late p.m.; temp. 40° to 63° F. Eight observers in 3 parties. Total hours, 29 (13 by car, 16 on foot); total miles, 118 (103 by car, 15 on foot). Common loon, 77; horned grebe, 2; pied-billed grebe, 17; brown pelican, 193; double-crested cormorant, 88; Ward's heron, 4; lesser scaup, 510 (part est.); Am. golden-eye, 9; buffle-head (rare), 39; hooded merganser, 25; red-breasted merganser, 1537 (includes flock of 1500 est.); turkey vulture, 14; black vulture, 80 (includes flock of 73); sharp-shinned hawk, 2; red-tailed hawk, 1; red-shouldered hawk, 4; bald eagle, 1 (incubating); marsh hawk, 1; sparrow hawk, 8; bob-white, 15 (1 covey); coot, 2; Cuban snowy plover, 6; semipalmated plover (seldom seen in winter), 5; killdeer, 18; black-bellied plover, 24; Wilson's snipe, 1; red-backed sandpiper, 6; sanderling, 31; herring gull, 78; ring-billed gull, 68; laughing gull, 7; Forster's tern, 52; common tern, 10; royal tern, 18; mourning dove, 16; ground dove (very rare), 1; whip-poor-will (rare in winter), 1; belted kingfisher, 5; flicker, 19; red-bellied woodpecker, 8; red-headed woodpecker, 9; yellow-bellied sapsucker, 2; hairy woodpecker, 1; downy woodpecker, 5; phoebe, 22; tree swallow, 103; blue jay, 41; common and fish crows (some of each identified by sound, count made of all seen), 56; chickadee, 9; tufted titmouse, 7; red-breasted nuthatch (accidental in Florida), 1 (nuthatch shape and posture, buffy breast, white line over eye—C.J.K., a competent observer); brown-headed nuthatch, 8; house wren, 9; Bewick's wren, 5 (never before seen in such numbers); Carolina wren, 12; mockingbird, 55; catbird (rare in winter), 3; brown thrasher, 21; robin, 70; hermit thrush, 2; bluebird, 39; blue-gray gnatcatcher, 9; golden-crowned kinglet, 5; ruby-crowned kinglet, 140; cedar waxwing, 375 (part est.); loggerhead shrike, 26; starling, 26; blue-headed vireo, 4; black and white warbler, 2; orange-crowned warbler, 2; myrtle warbler, 411 (part est.); yellow-throated warbler, 1; pine warbler, 102; western palm and yellow palm warblers (some typical examples of each definitely identified), 29; yellow-throat, 3; English sparrow, 85; meadowlark, 47; red-wing, 360 (includes flock of 200); cardinal, 14; purple finch (very rare), 6; goldfinch, 320 (partly est.); red-eyed and Alabama towhees (some typical examples of each definitely identified), 43; savannah sparrow, 14; sharp-tailed sparrow, 3; seaside sparrow, 3; vesper sparrow, 11; chipping sparrow, 67; field sparrow, 9; white-throated sparrow, 107; swamp sparrow, 6; song sparrow, 4. **Total,** 94 species and subspecies; about 5715 individuals.—Francis M. Weston, Frank Bray, Lyman E. Goodnight, Charles J. Kahn, Lennie Pate, Alan C. Sheppard, Maleta M. Wernicke, A. F. Wicke, Jr. (members Francis M. Weston Society of Natural History).

154. St. Augustine, Fla. (northern part of Anastasia Island and inland 1 to 3 miles; ocean and inlet beaches, flats, salt marshes, and bays 60%, high pine and live oak woodland and borders 30%, golf courses, pastures, fields, and palmetto scrub 10%).—Dec. 23; dawn to dark. Clear; temp. 52° to 70°; wind, none at start, then N increasing to about 18 m.p.h., then fading to dead calm. Two observers together. Total hours, 20 (about 10 on foot, 10 by car); total miles, 40 (7 on foot, 35 by car). Loon, 2 (1 dead

on beach); horned grebe, 3; pied-billed grebe, 2; brown pelican, 465; gannet, 38; double-crested cormorant, 293; great blue heron, 26; Am. egret, 64; snowy egret, 24; Louisiana heron, 38; little blue heron, 31; black-crowned night heron, 2; ring-necked duck, 2; lesser scaup, 48; ruddy duck, 2; hooded merganser, 6; red-breasted merganser, 72; turkey vulture, 8; black vulture, 2; sharp-shinned hawk, 1; red-tailed hawk, 1; red-shouldered hawk, 1; bald eagle, 2; marsh hawk, 2; osprey, 1; duck hawk, 1; pigeon hawk, 1; sparrow hawk, 1; clapper rail, 2; Florida gallinule, 2; Am. coot, 4; Am. oyster-catcher, 16; piping plover, 9; semipalmated plover, 237; Wilson's plover, 1; killdeer, 66; black-bellied plover, 287; ruddy turnstone, 46; Wilson's snipe, 2; long-billed curlew, 1 (living on abandoned golf course since Dec. 16); Hudsonian curlew, 6; spotted sandpiper, 6; willet, 8; greater yellow-legs, 14; lesser yellow-legs, 2; knot, 12; pectoral sandpiper, 1 [no details given, although few or none of this species have been recorded in the U.S. in December—Ed.]; least sandpiper, 16; red-backed sandpiper, 27; dowitcher, 4; semipalmated sandpiper, 31; western sandpiper, 2; marbled godwit, 2 (same bar where seen last year); sanderling, 256; herring gull, 700 (est.); ring-billed gull, 1000 (est.); laughing gull, 400 (est.); Bonaparte's gull, 68; Forster's tern, 48; common tern, 60; royal tern, 350 (est.); Caspian tern, 2; black skimmer, 7000 (est.); mourning dove, 1; ground dove, 8; barred owl, 1; belted kingfisher, 12; flicker, 3; pileated woodpecker, 1; red-bellied woodpecker, 7; yellow-bellied sapsucker, 2; hairy woodpecker, 2; downy woodpecker, 1; phoebe, 9; tree swallow, 5000 (est.); blue jay, 16; Florida jay, 8; crow, 2; Carolina chickadee, 2; tufted titmouse, 4; brown-headed nuthatch, 6; house wren, 2; Carolina wren, 4; mockingbird, 47; catbird, 3; brown thrasher, 1; robin, 34; bluebird, 18; blue-gray gnatcatcher, 1; ruby-crowned kinglet, 16; pipit, 72; loggerhead shrike, 32; starling, 4; white-eyed vireo, 2; black and white warbler, 1; orange-crowned warbler, 1; myrtle warbler, 2000 (est.); black-throated green warbler, 1 (in same live oak grove where 1 wintered last year); pine warbler, 28; palm warbler, 500 (est.); yellow-throat, 4; English sparrow, 17; meadowlark, 16; red-wing, 62; rusty blackbird, 8; cowbird, 8; cardinal, 12; goldfinch, 16; red-eyed towhee, 14; white-eyed towhee, 6; savannah sparrow, 16; seaside sparrow, 1; pine-woods sparrow, 1; field sparrow, 2; white-throated sparrow, 2; swamp sparrow, 3; song sparrow, 6. **Total,** 117 species; approximately 19,873 individuals. (Seen in area Dec. 24: parasitic jaeger, 2; hermit thrush, 2; blue-headed vireo, 2; boat-tailed grackle, 4; grasshopper sparrow, 1. Seen Dec. 28: bob-white, 2; woodcock, 1; red-cockaded woodpecker, 1; white-breasted nuthatch, 1; purple grackle, 16.) —Mr. and Mrs. Clifford Pangburn.

155. St. Marks National Wildlife Refuge, St. Marks, Fla. (same area as in previous counts; shores of fresh-water ponds, margins mostly open 80%, Gulf shore 5%, mixed pine and live oak forest 10%, swamps and cattail marshes 5%).—Dec. 23; 9 a.m. to 12:45 p.m., 1:45 to 6 p.m. Fair; wind E, 5-8 m.p.h.; temp. 45° to 65° F. Four observers working together, one present in p.m. only. Total hours, 8 (7 on foot, 1 in car); total miles, 23 (5 on foot, 18 in car). Horned grebe, 5; pied-billed grebe, 18; white pelican, 31; cormorant, 60; water-turkey, 5; great blue heron, 16; Am. egret, 80; snowy egret, 2; Louisiana heron, 4; little blue heron, 16; black-crowned night heron, 14; Am. bittern, 1; whistling swan, 3; Canada goose, 2000 (est.); snow goose, 1; blue goose, 9; mallard, 150; black duck, 50; gadwall, 1; baldpate, 60; pintail, 200; green-winged teal, 45; blue-winged teal, 25; shoveller, 12; redhead, 20; ring-necked duck, 50; lesser scaup, 20; Am. golden-eye, 1; bufflehead, 20; ruddy duck, 12; hooded merganser, 20; red-breasted merganser, 4; turkey vulture, 12; red-tailed hawk, 3; red-shouldered hawk, 2; bald eagle, 3; marsh hawk, 5; sparrow hawk, 4; limpkin, 1; Florida gallinule, 7; coot, 1200; killdeer, 25; black-bellied plover, 8; snipe, 4; greater yellow-legs, 40; lesser yellow-legs, 18; least sandpiper, 30; red-backed sandpiper, 8; dowitcher, 15; semipalmated sandpiper, 20; unidentified "peeps," 500; herring gull, 8; ring-billed gull, 50; Forster's tern, 9; mourning dove, 5; kingfisher, 19; flicker, 4; pileated woodpecker, 1; red-bellied woodpecker, 19; sapsucker, 8; hairy woodpecker, 2; phoebe, 14; vermilion flycatcher, 1 (adult male) [species has been previously recorded from this area in winter but no substantiating details given for present observation—Ed.]; tree swallow, 800 (est.); blue jay, 6; crow, 6; fish crow, 6; unidentified crows, 10; chickadee, 1; brown-headed nuthatch, 10; house wren, 6; Carolina wren, 4; long-billed marsh wren, 5; short-billed marsh wren, 3; mockingbird, 17; brown thrasher, 1; robin, 20; bluebird, 5; gnatcatcher, 1; ruby-crowned kinglet, 11; pipit, 5; shrike, 2; starling, 60; white-eyed vireo, 1; blue-headed vireo, 1; orange-crowned warbler, 1; myrtle warbler, 30; pine warbler, 2; palm warbler, 5; yellow-throat, 23; meadowlark, 4; red-wing, 350; boat-tailed grackle, 50; purple grackle, 2; cardinal, 7; goldfinch, 1; towhee, 12; savannah sparrow, 18; vesper sparrow, 2; white-throated sparrow, 3; swamp sparrow, 20; song sparrow, 11. **Total,** 100 species; about 6522 individuals.—Billy Cross, Paul Kreager, Henry M. Stevenson, and Paul Sturm.

156. St. Petersburg, Fla. (Gulfport, Pass-a-Grille, Gulf Beaches, and Shore Acres, also inland south of Largo; shores 70%, residential and fields 15%, swamps 5%, woodland 10%).—



Distribution of Audubon Magazine's Forty-seventh Christmas Bird Count

Dec. 21. Wind SW, 1-5 m.p.h. at start, heavy showers from 9:15 to 11 a.m., cold NW wind, 25-30 m.p.h.; cold and windy in p.m.; temp. 70° to 60°. Eighteen observers in 8 parties. Total hours afield, 67 (32 in car, 27 on foot, 8 by boat); total miles, 161 (123 by car, 28½ on foot, 9½ by boat). Common loon, 5; horned grebe, 7; pied-billed grebe, 33; brown pelican, 963; double-crested cormorant, 701; water-turkey, 1; man-o'-war-bird, 2; Ward's heron, 57; Am. egret, 87; snowy egret, 44; Louisiana heron, 36; little blue heron, 80; green heron, 7; black-crowned night heron, 8; yellow-crowned night heron, 19; white ibis, 175; Am. pintail, 31; ring-necked duck, 51; greater scaup, 1; lesser scaup, 1513 (est.); ruddy duck, 50; red-breasted merganser, 220; turkey vulture, 48; black vulture, 39; sharp-shinned hawk, 1; Cooper's hawk, 2; red-shouldered hawk, 4; bald eagle, 30; marsh hawk, 11; osprey, 1; duck hawk, 1; sparrow hawk, 30; bob-white, 47; clapper rail, 1; sora, 1; gallinule, 45; coot, 4562 (est.); piping plover, 2; semipalmated plover, 36; Wilson's plover, 42; killdeer, 122; black-bellied plover, 54; ruddy turnstone, 116; Wilson's snipe, 1; spotted sandpiper, 70; willet, 186; knot, 15; least sandpiper, 2; red-backed sandpiper, 89; dowitcher, 85; semipalmated sandpiper, 35; marbled godwit, 2; sanderling, 249; herring gull, 250; ring-billed gull, 964; laughing gull, 595; Bonaparte's gull, 3; Forster's tern, 238; royal tern, 190; Cabot's tern, 117; Caspian tern, 4; black skimmer, 1705; rock dove, 75; mourning dove, 174; ground dove, 59; screech owl, 2; belted kingfisher, 70; flicker, 42; pileated woodpecker, 1; red-bellied woodpecker, 56; red-headed woodpecker, 14; downy woodpecker, 2; phoebe, 14; blue jay, 37; tufted titmouse, 2; brown-headed nuthatch, 6; house wren, 17; Carolina wren, 4; long-billed marsh wren, 2; short-billed marsh wren, 11; mocking-bird, 196; catbird, 2; brown thrasher, 3; blue-bird, 77; blue-gray gnatcatcher, 5; ruby-crowned kinglet, 1; loggerhead shrike, 94; blue-headed vireo, 1; black and white warbler, 1; myrtle warbler, 83; yellow-throated warbler, 6; pine warbler, 28; prairie warbler, 2; western palm warbler, 259; yellow-throat, 13; English sparrow, 97; meadowlark, 110; red-wing, 1382; boat-tailed grackle, 399; cowbird, 100; cardinal, 17; goldfinch, 408; white-eyed towhee, 46; savannah sparrow, 62; grasshopper sparrow, 7; swamp sparrow, 20. **Total,** 106 species; about 18,093 individuals. (Seen during Christmas week: pigeon hawk, oyster-catcher, red-cockaded woodpecker, crow, robin, white-eyed vireo.)—Mrs. H. D. Pomeroy, Marie P. Cobb, Preble Cobb, Grace Martin, Cleora Adams, A. J. Dietrich, Mary Lou Mills, Robin Mills, Helen Harris, H. S. Slocum, C. H. Manley, Nellie G. Green, Mrs. E. J. Buchwald, J. E. Williams, William G. Fargo, Mrs. H. T. Rutherford, Ethel Lavers, Daisie M. Morrison.

157. Tallahassee, Fla. (center of town north to Lake Jackson and the Ochlockonee River; lake shore 45%, open pastures and old fields 30%, mixed pine and hardwood forests 25%).—Dec. 21; dawn to dusk. Mostly fair; wind NW, 10-20 m.p.h.; temp. 48° to 59° F. Three observers in 2 parties. Total hours, 18 (on foot); total miles, 20 (on foot). Horned grebe, 3; pied-billed grebe, 35; cormorant, 6; great blue heron, 3; Am. egret, 14; Louisiana heron, 2; little blue heron, 4; Canada goose, 2; mallard, 1; pintail, 15; ring-necked duck, 210; lesser scaup, 1; (freshly killed); buffle-head, 1; ruddy duck, 5; turkey vulture, 18; black vulture, 18; sharp-shinned hawk, 1; red-tailed hawk, 2; red-shouldered hawk, 2; bald eagle, 1; marsh hawk, 5; osprey, 2 (B.C., S.W.); sparrow hawk, 5; coot, 800; killdeer, 42; snipe, 2; least sandpiper, 3 (H.S.); ring-billed gull, 8; mourning dove, 30; ground dove, 1; barred owl, 1; kingfisher, 5; flicker, 31; pileated woodpecker, 1; red-bellied woodpecker, 14; red-headed woodpecker, 6; sapsucker, 5; hairy woodpecker, 2; downy woodpecker, 1; phoebe, 26; blue jay, 26; crow, 37; chickadee, 14; titmouse, 7; house wren, 13; Carolina wren, 10; short-billed marsh wren, 1; mockingbird, 34; brown thrasher, 12; bluebird, 13; gnatcatcher, 13; ruby-crowned kinglet, 53; pipit, 15; cedar waxwing, 30; shrike, 15; starling, 22; white-eyed vireo, 1; blue-headed vireo, 3; black and white warbler, 1; orange-crowned warbler, 3; myrtle warbler, 75; pine warbler, 14; palm warbler, 26; oven-bird, 1 (H.S.); yellow-throat, 7; English sparrow, 50; meadowlark, 165; red-wing, 275; grackle, 50; cardinal, 62; goldfinch, 22; towhee, 104; savannah sparrow, 16; vesper sparrow, 50; chipping sparrow, 100; field sparrow, 21; white-throated sparrow, 110; swamp sparrow, 5; song sparrow, 23. **Total,** 79 species; about 2833 individuals. (Seen in area near date of census: brown-headed nuthatch, robin, hermit thrush, golden-crowned kinglet, yellow-throated warbler, cowbird.)—Billy Cross, Henry M. Stevenson, Sandy West.

158. Alliance, Ohio (area 15 miles in diameter with Alliance as center; parks and suburbs 30%, woodlots 20%, pasture 15%, open farmlands 35%).—Dec. 29. Freezing rain in a.m., rain until 2 p.m. then cloudy and windy; temp. 31° to 38°; SE wind variable, 15-35 m.p.h. Four observers in 3 parties. Total hours, 18 (12 on foot, 6 by car); total miles, 37 (15 by foot, 22 by car). Sharp-shinned hawk, 1; ring-necked pheasant, 2; short-eared owl, 1; flicker, 1; hairy woodpecker, 2; downy woodpecker, 1; blue jay, 3; crow, 3; black-capped chickadee, 2; tufted titmouse, 4; white-breasted nuthatch, 3; brown creeper, 5; winter wren, 2; golden-crowned kinglet, 1; pipit, 5; cedar waxwing, 1; starling, 2000 (est.); English sparrow, 156; cardinal, 1; goldfinch, 1; slate-colored junco, 12; tree spar-

row, 19; field sparrow, 3; fox sparrow, 23 [no details—Ed.]; white-crowned sparrow, 15 [no details—Ed.]. **Total,** 25 species; about 2267 individuals.—Mable Hartzel, A. J. Damon, E. A. Burnham, Kenneth Burnham.

159. Ashland, Ohio (Charles Mill Dam area, same area as 1945 count; deciduous woods 15%, waste fields 40%, cultivated fields 5%, marsh and bushy swamps 23%, roadsides 15%, spruce grove 2%).—Dec. 22; 8 a.m. to 4:15 p.m. Cloudy, with limited sunshine between 1 and 2 p.m.; snow from 9 a.m. to 12 noon; temp. 30° to 32°; wind W, 15 m.p.h.; ground frozen, covered with 4 inches of snow; lake frozen except at inlets. Eight observers in 4 parties. Total hours, 25 (on foot); total miles, 32 (on foot). Great blue heron, 1; mallard, 13; black duck, 5; pintail, 1; red-tailed hawk, 1; red-shouldered hawk, 1; marsh hawk, 2; pheasant, 5; mourning dove, 17; Wilson's snipe, 1; barred owl, 2; kingfisher, 2; flicker, 6; pileated woodpecker, 2; red-bellied woodpecker, 13; hairy woodpecker, 5; downy woodpecker, 31; horned lark, 43; blue jay, 10; black-capped chickadee, 11; tufted titmouse, 38; white-breasted nuthatch, 25; brown creeper, 1; bluebird, 30; golden-crowned kinglet, 3; starling, 84; English sparrow, 406; rusty blackbird, 50; cardinal, 55; goldfinch, 58; junco, 64; tree sparrow, 449; field sparrow, 1; swamp sparrow, 3; song sparrow, 50. **Total,** 35 species; approximately 1489 individuals.—Paul D. Harwood, Charles S. Ross, Robert W. Wolfgang, Paul Thornburg, S. M. Martin, Robert Wygant, Harold Reep, Burton C. Kahl (members and guests, Ashland Naturalists Society).

160. Ashtabula, Ohio (Lake Erie shore from west of Ashtabula to Conneaut [14 miles] and most of lake plain from shore inland 4 miles).—Dec. 27; 7 a.m. to 5 p.m. Remains of a 16-inch snow, which had melted a few days before the count; temp. 18° at start, rising to 34°, with a steady rain just as count ended; wind 5-15 m.p.h.; clouds light to heavy with some haze over lake in p.m.; Lake Erie unfrozen except for part of the area enclosed by breakwaters; streams partly frozen. Four observers. Total miles, 134 (110 by car, 24 on foot). Due to the offshore wind many waterfowl in lee of breakwaters were invisible from shore. Canada goose, 2; mallard, 9; black duck, 36; redhead, 6; canvas-back, 1; lesser (?) scaup, 32; Am. golden-eye, 89; Am. merganser, 142; red-breasted merganser, 33; sharp-shinned hawk, 1 (pursuing starlings); Cooper's hawk, 2; duck hawk, 1 (pursuing pigeons at Conneaut); sparrow hawk, 1; ruffed grouse, 3; pheasant, 2 (tracks); coot, 1; northern skua, 1 (observed at close range for several minutes in comparison with herring gulls—L.E.H., P.B.; all identification marks well noted; identical with skuas observed previously in the North Atlantic; a similar bird, perhaps same individual, observed 20 miles to the west on Dec. 7); glaucous gull, 1; great black-backed gull, 2 (imm.); ring-billed gull, 6+; herring gull, 806; Bonaparte's gull, 2; mourning dove, 8; screech owl, 1; snowy owl, 1 (others seen recently to the west); barred owl, 1; kingfisher, 1; pileated woodpecker, 1; flicker, 1; hairy woodpecker, 1; downy woodpecker, 14; horned lark, 8 (subsp.?); blue jay, 10; crow, 2; black-capped chickadee, 58; tufted titmouse, 1; white-breasted nuthatch, 8; brown creeper, 1; winter wren, 2; hermit thrush, 1; golden-crowned kinglet, 10; cedar waxwing, 72 (1 flock, feeding on wild grapes); starling, 645; English sparrow, 625; cardinal, 51; common redpoll, 200 (1 flock, observed by entire party); goldfinch, 35; slate-colored junco, 58; tree sparrow, 92; song sparrow, 6. **Total,** 50 species; about 3093 individuals.—Lawrence E. Hicks, Robert H. Mills, Phil Bascom, William F. Davis.

161. Athens, Ohio (same area as covered since 1942; Athens to 3 miles east, and hill region 2-4 miles north of Athens; woodland 50%, open fields 15%, river bank 15%).—Dec. 22; 8 a.m. to 6 p.m. Clear to overcast; light, intermittent snow; temp. 30° to 32° F.; wind SW, 5-8 m.p.h.; ground covered with 2 inches fresh snow, mostly bare by noon. Eight observers in 3 parties. Total hours, 16; total miles, 22 (17 on foot, 5 by car). Pheasant, 2; bob-white, 21; killdeer, 2; screech owl, 1; kingfisher, 2; pileated woodpecker, 2; flicker, 9; red-bellied woodpecker, 3; yellow-bellied sapsucker, 1; hairy woodpecker, 5; downy woodpecker, 25; blue jay, 11; crow, 4; chickadee, 101; titmouse, 70; white-breasted nuthatch, 1; brown creeper, 3; winter wren, 2; Carolina wren, 16; mocking-bird, 5; robin, 40; bluebird, 33; golden-crowned kinglet, 10; starling, 135; English sparrow, 115; cardinal, 121; goldfinch, 44; towhee, 3; junco, 37; tree sparrow, 121; field sparrow, 8; song sparrow, 90. **Total,** 32 species; 1043 individuals.—F. H. Bezdek, A. H. Blickle, Donald Gier, Ronald Gier, H. T. Gier, Kathryn Philson, Hazel Roach, T. M. Wolfe (Athens Bird Club).

162. Buckeye Lake, Ohio (about the same area as in past 22 years; deciduous woodlands 60%, open farmland 30%, brushy swamp and cattail marsh 10%).—Dec. 23; 7 a.m. to 5 p.m. Partly cloudy; temp. 28° to 45°; wind S, 10-20 m.p.h.; snow coverage at daylight 100% and 1 inch deep, melting to 3% coverage at dusk; 70% ice coverage on lake, streams partly ice-covered. Eight observers in 3 parties. Total man miles, 34; total auto miles, 130. Pied-billed grebe, 1; mallard, 370+; black duck, 437+; gadwall, 1; baldpate, 7; pintail, 90; green-winged teal, 1; shoveller, 1; redhead, 1; ring-necked duck,

6; lesser scaup, 2; golden-eye, 32; buffle-head, 5; ruddy duck, 1; hooded merganser, 35+; Am. merganser, 45+; sharp-shinned hawk, 1; Cooper's hawk, 5; red-tailed hawk, 1; red-shouldered hawk, 4; bald eagle, 2; marsh hawk, 6; sparrow hawk, 22; bob-white, 40 (5 coveys); ring-necked pheasant, 20; killdeer, 3; Wilson's snipe, 1; herring gull, 3; ring-billed gull, 33; mourning dove, 46; barn owl, 2; screech owl, 2; barred owl, 2; short-eared owl, 1; belted kingfisher, 2; flicker, 39; pileated woodpecker, 2; red-bellied woodpecker, 12; red-headed woodpecker, 1; hairy woodpecker, 8; downy woodpecker, 50; horned lark, 179 (majority identified as prairie horned larks, 2 as northern horned larks); blue jay, 75; crow, 4; Carolina chickadee, 119; tufted titmouse, 87; white-breasted nuthatch, 52; brown creeper, 27; winter wren, 2; Carolina wren, 2; long-billed marsh wren, 1; robin, 15; bluebird, 23; golden-crowned kinglet, 10; starling, 518; myrtle warbler, 2; English sparrow, 1425; meadowlark, 17; red-wing, 30; rusty blackbird, 38; bronzed grackle, 1; cowbird, 396; cardinal, 207; goldfinch, 45; slate-colored junco, 77; tree sparrow, 204; white-throated sparrow, 1; swamp sparrow, 9; song sparrow, 168. **Total,** 69 species; about 5077 individuals.—Mrs. Paul A. Barry, Gareth E. Gilbert, Lawrence E. Hicks, Arthur S. Kiefer, Ernest Limes, Frank W. Mead, Mrs. Edward S. Thomas, Milton B. Trautman.

163. Bucyrus, Ohio (Kuehnle farms southeast of city to bridge 4 miles southeast on Mt. Vernon Rd.; open woods 25%, dense woods 50%, bottomland 15%, farmland 10%).—Dec. 24; dawn to dusk. Overcast with occasional hazy sunlight; temp. 20° to 32° F.; wind SSW, 25-38 m.p.h.; ground covered with 2-3 inches of crusted snow; ponds frozen over but streams with much open water. Two observers, working singly in a.m. and together in p.m. Total hours, 11 (10 on foot, 1 in car); total miles, 30 (10 on foot, 20 in car). Goshawk, 1; red-tailed hawk, 1; red-shouldered hawk, 1; sparrow hawk, 3; bob-white, 4; ring-necked pheasant, 1; mourning dove, 15; barred owl, 1; flicker, 12; red-bellied woodpecker, 5; hairy woodpecker, 6; downy woodpecker, 8; horned lark, 7; blue jay, 15; black-capped chickadee, 4; tufted titmouse, 39; white-breasted nuthatch, 1; red-breasted nuthatch, 22; brown creeper, 11; starling, 93; English sparrow, 300 (est.); meadowlark, 9; cardinal, 23; goldfinch, 4; tree sparrow, 46; song sparrow, 2. **Total,** 26 species; about 634 individuals. — Chas. H. Kuehnle, Paul F. Kuehnle.

164. Cadiz, Ohio (same area as in past 46 years; yards and gardens in Cadiz 10%, open fields 50%, woods 25%, brushy roadsides 15%). —Dec. 22; 9:30 a.m. to 12:40 p.m., 2:30 to 4:45 p.m. Cloudy; temp. 26° to 35°; wind SW, light; ground covered with 3.5 inches crusted snow. Eight observers in 2 parties in a.m., together in p.m. Total hours, 6 (5 on foot, 1 by car); total miles, 30 (10 on foot, 20 by car). Red-tailed hawk, 2; sparrow hawk, 1; pileated woodpecker, 2; red-bellied woodpecker, 3; yellow-bellied sapsucker, 1; hairy woodpecker, 4; downy woodpecker, 11; prairie horned lark, 5; blue jay, 1; crow, 5; Carolina chickadee, 26; tufted titmouse, 9; white-breasted nuthatch, 6; Carolina wren, 3; bluebird, 1; starling, 79; English sparrow, 242; cardinal, 26; slate-colored junco, 15; tree sparrow, 24; song sparrow, 11. **Total,** 21 species; 476 individuals.—Harry B. McConnell, John G. Worley, John C. Worley, David E. Worley, Harold Haverfield, Raymond Reed, Martha Mitchell, Sarah K. McClintock.

165. Canton, Ohio (area 15 miles in diameter with Canton as center; parks and suburbs 35%, woodlots 20%, open farmlands 30%, pastures 15%).—Dec. 22. Overcast; lakes and ponds and most streams frozen; 3 inches snow, occasional snow flurries; temp. 30° to 34°; wind SW, 5 m.p.h. Eighteen observers in 12 parties. Total hours, 30 (25 on foot, 5 by car); total miles, 60 (35 on foot, 25 by car). Sharp-shinned hawk, 2; red-shouldered hawk, 2; sparrow hawk, 5; bob-white, 1; hairy woodpecker, 5; downy woodpecker, 27; blue jay, 7; crow, 1; black-capped chickadee, 30; tufted titmouse, 38; white-breasted nuthatch, 25; brown creeper, 5; golden-crowned kinglet, 2; starling, 511; English sparrow, 780; cardinal, 43; slate-colored junco, 82; tree sparrow, 115; song sparrow, 52. **Total,** 19 species; 1733 individuals.—Eleanor Anderson, Robert Ball, J. G. Biers, Howard Braun, Don Collins, Mr. and Mrs. J. L. Floyd, Bruce Hettel, C. Kaufhaultz, Ernest Kell, Grover Keplinger, Edward Kimes, Mrs. R. V. Mitchell, George Nieport, Mr. and Mrs. D. R. Pratt, Edgar Sheffler, E. G. Sheffler (members of the Neo Naturalists).

166. Cleveland, Ohio (Gordon Park eastward to mouth of Chagrin River along the Lake Erie shore; inland to Shaker Lakes, Gates Mills, North Chagrin reservation, and Willoughby; lake shore 15%, beech-maple climax forest 20%, open fields 30%, town suburbs 15%, thickets 15%, swamps 5%).—Dec. 21; 8 a.m. to dusk. Overcast, with light snow flurries; brisk NW wind; temp. 28° to 30°; 3 inches snow; Lake Erie open but ponds and rivers mostly frozen. Twenty-three observers in 9 parties. Total hours, 55 (34 on foot, 21 by car); total miles, 275 (40 on foot, 235 by car). Horned grebe, 4; mallard, 16; black duck, 33; lesser scaup, 2; golden-eye, 24; Am. merganser, 4; Cooper's hawk, 2; red-tailed hawk, 1; sparrow hawk, 3; pheasant, 3; herring gull, 387; ring-billed gull, 96; Bona-

parte's gull, 106; rock dove, 123; mourning dove, 1; great horned owl, 1; barred owl, 1; kingfisher, 1; pileated woodpecker, 6; hairy woodpecker, 14; downy woodpecker, 29; prairie horned lark, 15; blue jay, 34; crow, 2; black-capped chickadee, 130; tufted titmouse, 41; white-breasted nuthatch, 43; red-breasted nuthatch, 3; brown creeper, 1; hermit thrush, 1 (E.G., J.F.—first census record); golden-crowned kinglet, 28; starling, 209; myrtle warbler, 9 (second census record, birds observed at close range, 5 by E.G. and J.F., 4 by M.S. and M.B.S.); English sparrow, 364; cardinal, 64; common redpoll, 143 (1 flock of 125); pine siskin, 2; goldfinch, 37; slate-colored junco, 159; tree sparrow, 226; white-throated sparrow, 1 (at feeding station—R.K.); song sparrow, 15. **Total,** 42 species; 2384 individuals.—James Akers, Jerry Brody, Vera Carrothers, Maude Doolittle, Elsie Erickson, James Findley, Bob Foley, Earl Godfrey, Carl Hamann, R. W. Hill, Richard Klein, Luella and Nadine Literaty, Howard Martin, Margaret Perner, Frank Shankland, Margaret Sherwin, Marion Skaggs, Virginia Southam, Ted Stevens, Kurt Student, Lida Whittier, M. B. Skaggs (guests and members The Kirtland Bird Club).

167. Cuyahoga Falls, Ohio (same area as in previous years, excepting Silver Lake Village and Camp Manatoc; city and suburban areas 20%, streams and deciduous wooded valleys 40%, open farmlands 15%, Summit Lake and Cuyahoga River 15%, golf courses 10%).—Dec. 22; 8:30 a.m. to 4:30 p.m. Overcast, with occasional snow flurries; wind W, 10-15 m.p.h.; temp. 15° to 23°; Summit Lake and Cuyahoga River open. Fourteen observers in 9 parties. Total hours, 45 (39 on foot, 6 by car). Black duck, 69; hooded merganser, 7; sharp-shinned hawk, 1; Cooper's hawk, 2; red-tailed hawk, 4; red-shouldered hawk, 1; marsh hawk, 1; sparrow hawk, 5; bob-white, 3 coveys; ring-necked pheasant, 4; herring gull, 1; mourning dove, 4; kingfisher, 1; hairy woodpecker, 13; downy woodpecker, 36; prairie horned lark, 16; blue jay, 27; crow, 4; black-capped chickadee, 75; titmouse, 20; white-breasted nuthatch, 24; red-breasted nuthatch, 1; brown creeper, 9; Carolina wren, 1; robin, 11 (3 reports); golden-crowned kinglet, 7; ruby-crowned kinglet, 1; cedar waxwing, 16; starling, 145; English sparrow, 658; red-wing, 1 (with starlings); cardinal, 94; purple finch, 5; goldfinch, 138 (125 in 1 flock); junco, 50; tree sparrow, 118; song sparrow, 27. **Total,** 37 species; about 1600 individuals. —Harve Bolich, Ralph Dexter, John Lieftinck, Charles Mounts, John Roetzel, F. Smith, Lulu Smith, Martin Smith, Henry Stevens, Jim Thorpe, W. Towle, Mr. and Mrs. Lawrence Fulmer, Gertrude Renicker (Cuyahoga Falls Audubon Club).

168. Dayton, Ohio (Woodland Cemetery, Upper Dayton View, Madden Park, Island Park, Oakwood, Hills and Dales, Cricket Holler, Miami River, Mad River, Englewood Dam, Stillwater River, Calvary Cemetery, Patterson Field, Glenside, Wolf Creek, Stroop Road, and Taylorsville Dam; woodland and thickets 30%, park and wooded residential 20%, river banks and lake shore 25%, fields, meadows, and dry marsh 25%).—Dec. 29. Overcast, light drizzle until about 9 a.m.; temp. 37° at daylight, max. 45°, 32° at 6 p.m.; wind W and NW, 18-35 m.p.h. with one gust at 45 m.p.h.; ground soft, streams rising after rain before daylight. Thirty-three observers, 2 singly, others in 9 groups. Total party hours, 57; total party miles, 154 (43 on foot, 111 by car). Canada goose, 18; mallard, 11; black duck, 9; Cooper's hawk, 1; red-tailed hawk, 1; red-shouldered hawk, 2; rough-legged hawk, 5; marsh hawk, 1; sparrow hawk, 9; unidentified hawk, 2; bob-white 58; pheasant, 9; coot, 8; killdeer, 3; mourning dove, 1; rock dove, 150; barn owl, 3; screech owl, 1; short-eared owl, 1; kingfisher, 3; flicker, 17; yellow-bellied sapsucker, 11; hairy woodpecker, 8; downy woodpecker, 81; blue jay, 22; crow, 848; black-capped chickadee, 1 (C.W.H.; size and calls compared with Carolina chickadee); Carolina chickadee, 194; tufted titmouse, 123; white-breasted nuthatch, 27; brown creeper, 20; winter wren, 3; Carolina wren, 16; mockingbird, 7; robin, 29; bluebird, 25; golden-crowned kinglet, 3; cedar waxwing, 4; migrant (?) shrike, 2; starling, 132; English sparrow, 475; myrtle warbler, 26; meadowlark, 12; cardinal, 294; purple finch, 1; goldfinch, 17; towhee, 19; junco, 206; tree sparrow, 46; field sparrow, 2 (J.L.); song sparrow, 63. **Total,** 49 species; 3030 individuals.—Mr. and Mrs. Kenneth Stutzman, Jack Lambert, Norman Bright, Charles F. Breish, Cecil Dobbins, William Duellman, Dorothea Eikenbary, Ann Tuhey, Catherine Hadeler, Mr. and Mrs. D. L. Sollenberger, John T. Cicur, Jr., Ruth Clark, Eva Sefton, Florence Clippinger, Mr. and Mrs. Kenneth Dearolf, Bert H. Smith, Louis Kalter, Don Lee, Max Hawker, Helen Lohmeier, Della Scholey, Norma Stang, Marguerite Stang, Barbara Stang, David Stang, Thomas Stang, Henry Stang, Louis Blincoe, Joseph Blincoe, Ben J. Blincoe (Dayton Audubon Society).

169. Findlay, Ohio (2 miles of Eagle Creek, Shreve Bird Sanctuary, Strawbridge Marsh, and Boy Scout Reservation; evergreen plantation 15%, marsh 19%, second-growth timber 37%, oak-hickory forest 19%, copse and various species of Crataegus 10%).—Dec. 26; 8 a.m. to 5 p.m. Overcast in a.m., clear in p.m.; temp. 18° to 28°; wind NW, 3 m.p.h.; 1 inch snow; no open water, except small sections of Eagle Creek. Thirteen observers in 2 parties. Total

hours, 9; total miles, 22 (18 on foot, 4 by car). Cooper's hawk, 1; red-tailed hawk, 1; red-shouldered hawk, 1; Am. rough-legged hawk, 2; marsh hawk, 3; sparrow hawk, 1; ring-necked pheasant, 9; mourning dove, 3; barn owl, 1; belted kingfisher, 1; flicker, 1; hairy woodpecker, 1; downy woodpecker, 9; northern horned lark, 23; blue jay, 4; crow, 15; black-capped chickadee, 5; tufted titmouse, 6; white-breasted nuthatch, 11; brown creeper, 1; Carolina wren, 1; robin, 1; starling, 57; English sparrow, 280; meadowlark, 1; cardinal, 9; towhee, 1; slate-colored junco, 14; tree sparrow, 15; white-crowned sparrow, 1 (adult) [no details—Ed.]; song sparrow, 17; snow bunting, 4. **Total,** 32 species; 500 individuals.—R. S. Phillips, Norma Essex, Sara Caldwell, Thelda Huston, Don Warnick, Jack Snyder, Dallas Gary, Peter Rilling, Jack Meek, Jack Williams, Robert Neil, Tom Klein, Rex Smith (Findlay Naturalists Association).

170. Hamilton, Ohio (same area as in last 27 years; edge of town to Miami River, along river to Symmes Creek and return; open farmland 40%, woodland patches 40%, weedy fields 20%). —Dec. 22; 9 a.m. to 5 p.m. Cloudy; temp. 30° at start, 32° at return; wind light, SW; ground covered with 3 inches snow; visibility fair; streams open. Two observers together. Total miles, 18 (8 on foot, 10 by car). Red-tailed hawk, 3; marsh hawk, 1; sharp-shinned hawk, 1; sparrow hawk, 8; bob-white, 9; killdeer, 3; mourning dove, 15; kingfisher, 3; flicker, 15; red-bellied woodpecker, 1; downy woodpecker, 18; horned lark, 32; blue jay, 4; crow, 37; Carolina chickadee, 30; tufted titmouse, 26; brown creeper, 6; Carolina wren, 5; mockingbird, 3; robin, 240; bluebird, 9; golden-crowned kinglet, 6; starling, 294; English sparrow, 160; meadowlark, 2; cardinal, 54; goldfinch, 15; slate-colored junco, 31; tree sparrow, 60; white-crowned sparrow, 1; song sparrow, 86. **Total,** 31 species; 1178 individuals.—Frank Harbaum, Willis Harbaum.

171. Lancaster, Ohio (within a radius of 5 miles of Lancaster, approximately same route as previous 22 years).—Dec. 22; 8:15 a.m. to 4:45 p.m. Overcast with occasional light snow in a.m., partly cloudy in p.m.; ground covered with 3 inches snow; ponds frozen but streams open; wind W, moderate; temp. 30° at start, 38° at noon, 32° at return. Seven observers in 5 groups. Total hours afield, 32 (afoot); total party miles, 42 (afoot). Sparrow hawk, 1; pheasant, 1; killdeer, 6; mourning dove, 13; flicker, 3; red-bellied woodpecker, 2; hairy woodpecker, 2; downy woodpecker, 26; blue jay, 19; Carolina chickadee, 64; tufted titmouse, 39; white-breasted nuthatch, 16; red-breasted nuthatch, 2; brown creeper, 12; winter wren, 1; Carolina wren, 3; robin, 7; bluebird, 62; golden-crowned kinglet, 2; cedar waxwing, 15; starling, 393; myrtle warbler, 4; English sparrow, 345; cardinal, 125; goldfinch, 2; slate-colored junco, 58; tree sparrow, 78; song sparrow, 55. **Total,** 28 species; 1356 individuals.—Florence Branum, Louis Kitz, Chas. H. Shaw, Paul J. Miller, Robert J. Goslin, James L. Goslin, and Charles R. Goslin.

172. Mansfield, Ohio (same area as in previous counts; South Park in city to point 8 miles south; city parks 25%, farm, fields, woods, small planting of conifers, and swampland 75%).—Dec. 22. Cloudy; wind SW, 5 m.p.h.; temp. 28° to 34°. Four observers. Total hours, 6½. Barred owl, 1; kingfisher, 1; flicker, 1; red-bellied woodpecker, 3; hairy woodpecker, 2; downy woodpecker, 6; blue jay, 8; crow, 7; black-capped chickadee, 11; tufted titmouse, 5; white-breasted nuthatch, 5; robin, 1; starling, 20; slate-colored junco, 26; tree sparrow, 9. **Total,** 15 species; 106 individuals.—Lloyd Barr, Evelyn Barr, Jane Spandau, H. M. Spandau.

173. Oxford, Ohio (Miami University and Western College campuses, Four Mile Creek 2 miles north and 1 mile south of Oxford, 1 mile along Harker's Run and 1 mile along Bull Run above respective junctions with Four Mile Creek, 1½ miles along Indian Creek west-southwest of Oxford, areas of Paul Logan and Harold Brown farms, Hueston's woods; creek and brook margins 45%, mature woodland 20%, open fields 15%, roadsides 10%, university campus or urban areas 10%).—Dec. 21; 8 a.m. to 5:45 p.m. Heavy snow to clear; temp. 32° to 34°; wind SW, light; ground covered with snow; streams open. Twenty observers in 8 parties. Total party hours, 43; total party miles, 38. Cooper's hawk, 3; sharp-shinned hawk, 1; red-tailed hawk, 3; red-shouldered hawk, 1; marsh hawk, 4; sparrow hawk, 4; bob-white, 12; rock dove, 68; mourning dove, 135; barn owl, 4; great horned owl, 1; barred owl, 1; belted kingfisher, 4; flicker, 49; red-bellied woodpecker, 30; yellow-bellied sapsucker, 1; hairy woodpecker, 8; downy woodpecker, 98; horned lark, 99; blue jay, 6; crow, 44; Carolina chickadee, 235; tufted titmouse, 242; white-breasted nuthatch, 33; brown creeper, 7; house wren, 1 (observed for 2 minutes at 10 ft., visibility good—P.D., R.R.); winter wren, 2; Bewick's wren, 1; Carolina wren, 15; mockingbird, 6; robin, 16; bluebird, 47; golden-crowned kinglet, 1; cedar waxwing, 32; starling, 636; English sparrow, 689; meadowlark, 3; bronzed grackle, 1; cardinal, 274; goldfinch, 16; towhee, 1; slate-colored junco, 258; tree sparrow, 60; white-throated sparrow, 1; song sparrow, 118. **Total,** 45 species; 3271 individuals.—R. A. Hefner, Mrs. R. A. Hefner, P. S. Crowell, Villa Crowell, Ethel Crowell, M. W.

Boesel, Antoinette Boesel, Mrs. Paul Logan, David Logan, Harold Brown, Ray D. Bourne, Robert Rech, Russell J. Long, George Fichter, Paul M. Daniel, N. C. Negus, Carl Nelson, Belva Laughlin, Robert Wadleigh, Ted Brown.

174. Portsmouth, Ohio (roadsides, creek banks, and fields along river; deciduous woodland 10%; much of territory covered with giant ragweed, which attracted many cardinals and sparrows).—Dec. 21; dawn to dark. Overcast in a.m. to light snow and rain in p.m.; temp. 34° at start, rising slowly. Five observers in 2 parties. Total miles, 97 (37 on foot, 60 by car). Great blue heron, 1; mallard, 4; black duck, 11; hooded merganser, 8; Am. merganser, 2; sharp-shinned hawk, 1; Cooper's hawk, 4; red-tailed hawk, 1; red-shouldered hawk, 1; broad-winged hawk, 2 [no details given to substantiate record; winter occurrence of this species in U.S. only casual—Ed.]; bald eagle, 1; sparrow hawk, 7; killdeer, 20; mourning dove, 105; barred owl, 1; belted kingfisher, 1; flicker, 26; red-bellied woodpecker, 7; red-headed woodpecker, 1; yellow-bellied sapsucker, 2; hairy woodpecker, 4; downy woodpecker, 25; prairie horned lark, 4; blue jay, 29; crow, 1457; Carolina chickadee, 86; tufted titmouse, 52; white-breasted nuthatch, 4; brown creeper, 6; winter wren, 10; Carolina wren, 25; mockingbird, 1; robin, 25; bluebird, 8; golden-crowned kinglet, 27; starling 8000 (est.); myrtle warbler, 53; pine warbler, 1 [no details—Ed.]; English sparrow, 127; red-wing, 25; grackle, 4000 (est.); cowbird, 1000 (est.); cardinal, 244; purple finch, 5; pine siskin, 1; goldfinch, 172; towhee, 53; slate-colored junco, 143; tree sparrow, 61; white-throated sparrow, 6; swamp sparrow, 1; song sparrow, 136. **Total,** 52 species; about 15,997 individuals.—Conrad Roth, Floyd B. Chapman, A. E. Hyder, John Oney, Jr., Julian Dusi.

175. Salem, Ohio (along Middle Fork of Little Beaver Creek from New Albany to McKinley Crossing, around Guilford Lake, and along abandoned canal to McKinley Crossing; headwaters of Middle Fork and along Stone Mill Run to Franklin Square; open farm and marshland 25%, wooded valley 75%).—Dec. 29; 8:30 a.m. to 5:30 p.m. Stratocumulus overcast until 1:30 p.m., changing to scattered altocumulus but overcast by 4 p.m.; continuous light rain with moderate showers until breaking of clouds; moderate fog with ⅜-mile visibility increasing to 10 miles; temp. 36° to 53°; wind W, 4-7 m.p.h. increasing to 19-24 m.p.h.; ground bare, unfrozen; streams mainly free of ice, marshes and lake mostly frozen. Five observers in 4 parties. Total hours, 35; total miles, 42 (on foot). Great blue heron, 2; mallard, 8; Cooper's hawk, 1; buteo (sp.?), 1; marsh hawk, 1; sparrow hawk, 1; ruffed grouse, 1; screech owl, 3; barred owl, 1; kingfisher, 3; pileated woodpecker, 1; red-bellied woodpecker, 3; hairy woodpecker, 7; downy woodpecker, 23; prairie horned lark, 12; blue jay, 10; crow, 2; black-capped chickadee, 47; Carolina chickadee, 1 (observer familiar with banded specimens — A.T.H.); titmouse, 45; white-breasted nuthatch, 24; brown creeper, 9; winter wren, 4; robin, 10; bluebird, 1; golden-crowned kinglet, 54; starling, 14; English sparrow, 75; red-wing, 8; rusty blackbird, 20; cardinal, 105; goldfinch, 18; slate-colored junco, 55; tree sparrow, 157; field sparrow, 2; swamp sparrow, 1; song sparrow, 47. **Total,** 37 species; 777 individuals. (Seen in area during census period: pied-billed grebe, 1; great horned owl, 1; mourning dove, 21; flicker, 1; purple finch, 3; vesper sparrow, 1 observed at 12 ft.—A.T.H.) Note absence of bob-white and Carolina wren since severe winter of 1944-45.—Mr. and Mrs. Albert T. Hartley, Paul A. Stewart, Raymond O. Marshall, William C. Baker.

176. Steubenville (Jefferson Co.), Ohio (same area as last year; deciduous woods 48%, bushy meadows and pastures 13%, hemlock grove 5%, creek bottomland 14%, bushy woods and underbrush 12%, urban 8%).—Dec. 29; 10:30 a.m. to 6 p.m. Rain until 2 p.m., cloudy, 1 hour of sunshine; temp. 40° to 52°; wind SE, 1 m.p.h. in a.m., shifting to SW 15 m.p.h., increasing to W, 25 m.p.h. from 1 to 2 p.m., decreasing to 5-10 m.p.h. remainder of day. Five observers, 2 parties part of time. Total hours, 12; total miles, 21. Hairy woodpecker, 2; downy woodpecker, 22; crow, 1; black-capped chickadee, 5; Carolina chickadee, 62; tufted titmouse, 28; brown creeper, 3; robin, 1; golden-crowned kinglet, 10; starling, 21; myrtle warbler, 2; English sparrow, 82; cardinal, 52; goldfinch, 2; slate-colored junco, 20; tree sparrow, 8; song sparrow, 11. **Total,** 17 species; 332 individuals.—Albert Tenney, Lois Tenney, James Bates, Richard Banks, Clinton Banks (Forest Audubon Club).

177. Sugar Grove, Ohio (same area as in last 2 years; about 850 acres in the unglaciated Appalachian Plateau: Hocking River and Clear Creek bottoms and adjacent uplands; open bottomlands 42%, mixed upland woodland 19%, hemlock forest 13%, old-field, pine-scrub 7%, mixed scrub 6%, southern yellow pine woods 5%, village 5%, country estate 3%).—Dec. 29; dawn to dusk. Light rain and fog in a.m., heavy shower at noon, mostly cloudy with brisk wind in p.m.; temp. 42° to 55°; wind W, 0-35 m.p.h. (est.); ground bare. Twenty-eight observers in 4 parties, mostly operating separately. Total hours, 141 (on foot); total miles, 156 (on foot). Turkey vulture, 12; black vulture, 8; Cooper's hawk, 1; red-tailed hawk, 2; red-shouldered hawk, 1; broad-winged hawk, 1 [no details given to substantiate record of a species so re-

mote from winter range—Ed.]; sparrow hawk, 1; ruffed grouse, 6; bob-white, 3; mourning dove, 42; screech owl, 2; horned owl, 1; barred owl, 1; long-eared owl, 1; kingfisher, 1; flicker, 17; pileated woodpecker, 5; red-bellied woodpecker, 19; sapsucker, 1; hairy woodpecker, 12; downy woodpecker, 79; blue jay, 6; crow, 2; Carolina chickadee, 195; titmouse, 167; white-breasted nuthatch, 48; red-breasted nuthatch, 4; brown creeper, 35; winter wren, 12; Carolina wren, 32; robin, 23; hermit thrush, 9; bluebird, 70; golden-crowned kinglet, 205; starling, 178; myrtle warbler, 3; English sparrow, 1107; meadowlark, 1; red-wing, 19; rusty blackbird, 2; cowbird, 2; cardinal, 329; purple finch, 72; goldfinch, 261; towhee, 3; junco, 265; tree sparrow, 129; field sparrow, 7; song sparrow, 74. **Total,** 49 species; 3476 individuals.—D. J. Borror, G. H. Breiding, A. H. Claugus, J. L. Dusi, G. Gilbert, C. R. Goslin, W. E. Goslin, D. Harlor, J. C. Harlor, L. E. Hicks, J H. Jenkins, K. W. Jones, J. Kailer, A. S. Kiefer, E. Limes, R. H. McCormick, F. W. Mead, R. H. Mills, J. Oney, C. R. Reese, I. B. Rickly, D. M. Smith, E. S. Thomas, W. A. Tucker, C. R. Wagner, C. F. Walker, R. S. Wilson, J. N. Wolfe (Wheaton Club, members and guests).

178. Toledo, Ohio (4 miles of Swan Creek valley, 5 miles of Ottawa River valley, isolated forests east of city, Cedar Point Marsh, Maumee River at Acme Power House, all in Ohio and Erie Marsh, Michigan; last-mentioned area contains a large flowing mineral spring; open water 5%, cultivated fields 5%, cattail marsh 10%, open deciduous forest 80%).—Dec. 22; dawn to dusk. Mostly cloudy; temp. 30° most of day; wind SW, 10 m.p.h.; 5 inches snow; Maumee Bay and marshes frozen. Twenty-five observers in 6 parties. Total hours, 35; total miles, 67 (37 on foot, 30 by car). Great blue heron, 2; mallard 2725; black duck, 385; gadwall, 8; baldpate, 20; pintail, 100; green-winged teal, 12; shoveller, 18; redhead, 1; lesser scaup, 2; Am. golden-eye, 29; hooded merganser, 6; Am. merganser, 80; sharp-shinned hawk, 2; Cooper's hawk, 4; red-tailed hawk, 1; red-shouldered hawk, 2; bald eagle, 2; marsh hawk, 7; sparrow hawk, 8; ring-necked pheasant, 295; coot, 1; killdeer, 1; red-backed sandpiper, 1; great black-backed gull, 2; herring gull, 190; ring-billed gull, 67; Bonaparte's gull, 524; mourning dove, 64; barn owl, 2; screech owl, 5; great horned owl, 1; barred owl, 1; flicker, 8; hairy woodpecker, 3; downy woodpecker, 84; horned lark, 83; blue jay, 46; crow, 25; black-capped chickadee, 73; tufted titmouse, 63; white-breasted nuthatch, 24; brown creeper, 34; winter wren, 9; Carolina wren, 2; brown thrasher, 1; robin, 2; golden-crowned kinglet, 23; cedar waxwing, 2; starling, 507; English sparrow, 410; red-wing, 1; cardinal, 113; purple finch, 33; redpoll, 5; goldfinch, 36; slate-colored junco, 273; tree sparrow, 250; field sparrow, 2; swamp sparrow, 3; song sparrow, 47. **Total,** 61 species; 6730 individuals. (Seen on same day but out of territory: snow bunting, 37.) Note absence of bob-whites for third successive year.—Laurel Van Camp, Wm. Peloquin, Herbert Dehring, Andrew Kondi, Louis W. Campbell, Louis Klewer, Wm. Knitt, Irvin Smith, Bud Schmidt, Harold Mayfield, John Stophlet, Russel Burgett, Phil Longenecker, Max Shepherst, Robert Van Gundy, Seymour Van Gundy, Seymour Holloway, Fred Flickinger, James Nessle, Lawrence Hiett, G. M. Orians, Paul Poppin, La Von Bible, Robert Tarbox, Fred Stearns (The Toledo Naturalists' Association).

179. Van Wert, Ohio (same area as last year; open farmland 25%, deciduous swamp forest 75%).—Dec. 22; 8 a.m. to 5 p.m. Overcast; wind WSW, 10-18 m.p.h.; temp. 28° to 32° F.; ground covered with 6 inches snow, occasional open water in streams. Two observers on foot separately. Total hours, 16; total miles, 16. Cooper's hawk, 1; red-tailed hawk, 3; marsh hawk, 1; sparrow hawk, 1; ring-necked pheasant, 3; mourning dove, 5; flicker, 8; hairy woodpecker, 4; downy woodpecker, 10; horned lark, 20; blue jay, 5; crow, 800+; tufted titmouse, 11; white-breasted nuthatch, 5; starling, 1; English sparrow, 4; cardinal, 17; savannah sparrow, 5 [no details—Ed.]; slate-colored junco, 5; tree sparrow, 26; song sparrow, 6. **Total,** 21 species; about 941 individuals.—Eugene E. Good, Arthur S. Brooks.

180. Youngstown, Ohio (Meander Lake Conservation area, Mill Creek Park and Mill Creek valley south to North Lima Road, Yellow Creek, Poland to Woodworth and vicinity Pine Lake—same territory covered since 1933; open farmland 60%, wooded areas 30%, cattail marsh 10%).—Dec. 22; 7:45 a.m. to 5 p.m. Mostly fair, few snow flurries; temp. 32° to 37°; light W wind; light snow on ground; most lakes and streams frozen; Meander Lake 50% open. Fifteen observers in 6 parties. Total hours, 40; total party miles, 42 (on foot). Double-crested cormorant, 2; great blue heron, 3; Canada goose, 95; mallard, 50; black duck, 500; gadwall, 18; baldpate, 15; pintail, 1; redhead, 1; lesser scaup, 3; Am. golden-eye, 28; buffle-head, 8; hooded merganser, 12; Am. merganser, 25; sharp-shinned hawk, 1; Cooper's hawk, 2; bald eagle, 1; sparrow hawk, 4; bob-white, 40; ring-necked pheasant, 16; killdeer, 1; herring gull, 4; ring-billed gull, 1; mourning dove, 16; great horned owl, 1; barred owl, 1; short-eared owl, 2; pileated woodpecker, 1; red-bellied woodpecker, 4; hairy woodpecker, 6; downy woodpecker, 31; northern horned lark, 22; prairie horned lark, 94; blue jay, 23; crow, 721; black-capped chick-

adee, 94; tufted titmouse, 57; white-breasted nuthatch, 58; red-breasted nuthatch, 2; brown creeper, 10; mockingbird, 1; bluebird, 1; golden-crowned kinglet, 69; ruby-crowned kinglet, 6; starling, 74; English sparrow, 177; red-wing, 16; cardinal, 45; purple finch, 15; goldfinch, 30; junco, 12; tree sparrow, 142; song sparrow, 11; Lapland longspur, 2; snow bunting, 50. **Total,** 55 species and subspecies; 2625 individuals. — Cora Turner, Edith Murray, Robert Reichle, Evan Dressel, William Baker, Paul Stewart, E. O. Mellinger, H. A. Johnson, John Barrow, Vincent McLaughlin, Howard Heimerdinger, George Madtes, Ed. Minich, Lindley Vickers, Grant M. Cook.

181. Athens, W.Va. (in a.m. a 3-mile circle about outskirts of town, plateau at 2600 ft. elevation; residences, vacant lots, and gardens 80%, weedy ravines 20%; by car in p.m. to Glenlyn, Va., 8 miles distant, on foot 3 miles down New River [the section of Va. forming a notch in W.Va. between Mercer and Monroe Counties], 3 miles along U.S. Route 219 past Pederstown, Monroe Co., W.Va.; brushy river banks 10%, woods 10%, weed fields 30%, farm and pastureland 50%).—Dec. 26; 8 a.m. to 5 p.m. Fair in a.m., cloudy in p.m.; temp. 38° at start, 40° at return; wind steady WNW, 15-20 m.p.h.; ground frozen; patches of snow on north exposures; river open, all ponds and small streams frozen. One observer 4 hours, 2 observers 5 hours. Total hours, 9 (6 on foot, 3 by car); total miles, 9 (6 on foot, 3 by car). Downy woodpecker, 2; blue jay, 7; crow, 12; Carolina chickadee, 3; tufted titmouse, 4; Carolina wren, 5; mockingbird, 5; robin, 2; bluebird, 16; golden-crowned kinglet, 4; migrant shrike, 1; starling, 35; yellow palm warbler, 2 (rare in winter at 2600 ft. elevation, 1 collected by P.C.B.); English sparrow, 52; cardinal, 16; goldfinch, 11; slate-colored junco, 26; tree sparrow, 3; white-crowned sparrow, 3 (first winter record for Athens); white-throated sparrow, 8; song sparrow, 9. **Total,** 21 species; 226 individuals. (Observed in area during count period: turkey vulture, black vulture, sparrow hawk.)—Mr. and Mrs. Paul Cecil Bibbee.

182. Charleston, W.Va. (suburbs, Great Kanawha River valley, and adjacent residential sections; Chappel, Jenkins, Donley and Ruffner Hollows, Davis Creek from mouth to State Route 13, thence to Great Kanawha River, South Ruffner, Cemetery Hill; open farmland and grassland 20%, wooded river bottomland 10%, deciduous woodland 60%, pine woodland 8%, wooded swamp 2%).—Dec. 22; 7 a.m. to 5 p.m. Overcast, with very light snow flurries at start, clearing in late p.m.; temp. 32° to 38°; wind calm; ground soaked by snowfall, ½-1 inch snow covering higher woodlands; water open. Ten observers in 6 parties. Total hours, 17 (14 on foot, 3 by car); total miles, 25 (22 on foot, 3 by car). Pied-billed grebe, 1; black duck, 1; scaup, 1; buffle-head, 4; ruddy duck, 1; sharp-shinned hawk, 1; sparrow hawk, 5; red-bellied woodpecker, 1; red-headed woodpecker, 1; yellow-bellied sapsucker, 1; hairy woodpecker, 1; downy woodpecker, 26; blue jay, 31; crow, 36; chickadee, 135; tufted titmouse, 83; white-breasted nuthatch, 23; red-breasted nuthatch, 2; brown creeper, 3; winter wren, 2; Carolina wren, 29; robin, 2; hermit thrush, 2; bluebird, 20; golden-crowned kinglet, 19; ruby-crowned kinglet, 1; cedar waxwing, 18; starling, 545; myrtle warbler, 14; English sparrow, 279; meadowlark, 1; cardinal, 121; goldfinch, 67; red-eyed towhee, 39; junco, 75; tree sparrow, 23; field sparrow, 17; white-throated sparrow, 15; fox sparrow, 1; swamp sparrow, 2; song sparrow, 145. **Total,** 41 species; 1794 individuals.—Mrs. W. W. Trent, Eleanor Sims, Maxine Thacker, Mr. and Mrs. John W. Handlan, A. B. Shields, Harlan Justice, Marshall Fuller, Wayne Bailey, W. R. DeGarmo.

183. Huntington, W.Va. (same area as in 1940 and subsequent counts; open fields, deciduous woodland, mixed conifers, river, feeding trays). —Dec. 22. Overcast; temp. 36° F.; wind W, 10-15 m.p.h.; ground wet. Twenty-four observers in 7 groups. Total hours, 32; total miles, 51 (24 on foot, 27 by car). Black duck, 12; sharp-shinned hawk, 1; Cooper's hawk, 1; red-tailed hawk, 1; sparrow hawk, 1; rock dove, 20; flicker, 6; pileated woodpecker, 1; yellow-bellied sapsucker, 2; hairy woodpecker, 5; downy woodpecker, 32; phoebe, 2; blue jay, 31; crow, 294; Carolina chickadee, 183; tufted titmouse, 110; white-breasted nuthatch, 7; brown creeper, 4; Carolina wren, 38; mockingbird, 4; robin, 9; hermit thrush, 2; bluebird, 26; golden-crowned kinglet, 14; cedar waxwing, 18; starling, 87; myrtle warbler, 9; English sparrow, 167; meadowlark, 8; cardinal, 109; goldfinch, 105; towhee, 32; vesper sparrow, 1; junco, 101; tree sparrow, 5; field sparrow, 1; white-throated sparrow, 21; song sparrow, 61. **Total,** 38 species; 1531 individuals. — Rachael Wilson, Mrs. C. S. Wagers, Mrs. H. A. Resener, Burton Raine, Mrs. H. C. Hale, Nell Rose Hale, James Shires, Mrs. C. W. Kerr, Mrs. Ira Nowlan, Virginia Cavendish, Mr. and Mrs. W. L. Garges, Mrs. M. W. Crenshaw, Grady Risen, Lois Garrett, Mr. and Mrs. W. H. Odell, Mrs. H. B. Shulz, Mrs. L. R. Storey, Mrs. Katherine Webb, Mr. and Mrs. Gunnoe, N. Bayard Green, Ralph M. Edeburn (Huntington Bird Club).

184. Morgantown, W.Va. (vicinity Morgantown and Cheat Lake, same general areas as in past several years; farmlands, forestlands, and water).—Dec. 26; 7:30 a.m. to 4:30 p.m.

Cloudy with 15-mile wind on ridges in forenoon, clear with less wind in afternoon; temp. 30° at start, 45° in p.m. Six observers in 3 parties—2 in field, 1 at home. Total miles, 44 (32 by car, 12 on foot). Double-crested cormorant, 2; mallard, 2; black duck, 97; redhead, 7; buffle-head, 6; sharp-shinned hawk, 1; ruffed grouse, 2; bob-white, 16; ring-necked pheasant, 1; ring-billed gull, 5; mourning dove, 12; flicker, 8; pileated woodpecker, 2; red-bellied woodpecker, 6; yellow-bellied sapsucker,, 1; hairy woodpecker, 5; downy woodpecker, 24; horned lark, 14; blue jay, 9; crow, 37; chickadee, 53; tufted titmouse, 87; white-breasted nuthatch, 6; brown creeper, 9; winter wren, 1; Carolina wren, 11; mockingbird, 1; robin, 76; hermit thrush, 3; bluebird, 24; golden-crowned kinglet, 7; cedar waxwing, 11; starling, 527; English sparrow, 200; meadowlark, 1; cardinal, 75; pine siskin, 8; goldfinch, 20; junco, 87; tree sparrow, 23; song sparrow, 19. **Total,** 41 species; 1506 individuals.—Ruth and Maurice Brooks, Lucretia and Herman Bowers, Earl Smith, I. B. Boggs.

185. Mt. Lookout (Nicholas Co.), W.Va. (same area as in 1941 and later counts; deciduous and hemlock woodland 74%, pine grove 1%, farmland 25%).—Dec. 27. Cloudy; temp. 40° to 55° F.; wind S, 7-12 m.p.h.; ground bare. Two observers, separate in a.m., together in p.m. Total hours, 12 (on foot); total miles, 17 (on foot). Ruffed grouse, 3; flicker, 6; red-bellied woodpecker, 2; hairy woodpecker, 6; downy woodpecker, 5; horned lark, 12; blue jay, 7; crow, 7; chickadee, 13; tufted titmouse, 44; brown creeper, 3; winter wren, 1; Carolina wren, 3; robin, 723; hermit thrush, 5; bluebird, 9; golden-crowned kinglet, 92; cedar waxwing, 3; English sparrow, 38; cardinal, 39; pine siskin, 7; goldfinch, 6; junco, 79; tree sparrow, 5; song sparrow, 2. **Total,** 25 species; 1120 individuals. (Dec. 23: sparrow hawk, 2; killdeer, 1; mockingbird, 1; Dec. 24: sharp-shinned hawk, 1; Dec. 28: meadowlark, 20.)—W. C. Legg and Alton McClung.

186. Bowling Green, Ky. (Chaney, McElroy Farms, Three Springs Marsh, Sweeney Mill area, Drake's Creek from Shaker Milldam to mouth of creek; stream banks 50%, open woods 25%, thickets 10%, old fields 10%, pastures 5%). —Dec. 23; 6:45 a.m. to 4:30 p.m. Clear; ground bare; no wind; temp. 29° to 40°. Four observers in 2 parties. Total hours, 36½ (on foot); total miles, 18. Turkey vulture, 1; red-tailed hawk, 1; red-shouldered hawk, 3; sparrow hawk, 6; bob-white, 5; killdeer, 9; Wilson's snipe, 11 (all in a small marsh); mourning dove, 180; flicker, 18; pileated woodpecker, 13; red-bellied woodpecker, 17; yellow-bellied sapsucker, 2; hairy woodpecker, 3; downy woodpecker, 25; prairie horned lark, 268; blue jay, 11; crow, 2825; Carolina chickadee, 64; tufted titmouse, 56; white-breasted nuthatch, 4; brown creeper, 1; winter wren, 5; Bewick's wren, 3; Carolina wren, 47; mockingbird, 26; robin, 2; hermit thrush, 2; bluebird, 30; golden-crowned kinglet, 3; ruby-crowned kinglet, 1; migrant shrike, 1; starling, 2005; myrtle warbler, 13; English sparrow, 110; meadowlark, 6; red-wing, 10; rusty blackbird, 232; bronzed grackle, 50; cowbird, 15; cardinal, 144; purple finch, 20; goldfinch, 111; towhee, 21; savannah sparrow, 1; slate-colored junco, 170; tree sparrow, 9; field sparrow, 19; white-crowned sparrow, 101; white-throated sparrow, 31; swamp sparrow, 3; song sparrow, 60. **Total,** 51 species; 6774 individuals. (Other species recorded near time of count: marsh hawk, barred owl, belted kingfisher, cedar waxwing.) — L. Y. Lancaster, Charles L. Taylor, J. R. Whitmer, Gordon Wilson (compiler).

187. Louisville (Jefferson Co.), Ky. (same territory as in previous years; bank of Ohio River 20%, fields and farmlands 30%, brushy fields and new growth 35%, deciduous woodland 15%).—Dec. 22; dawn to dusk. Cloudy, pale sun for a few hours; temp. 34° to 43° F.; wind 2-5 m.p.h.; ground bare; streams open. Twenty observers in 9 parties. Total hours, 44; total miles, 43. Common loon, 1; pied-billed grebe, 2; great blue heron, 1; Canada goose, 15; mallard, 80; black duck, 867; lesser scaup, 142; Am. golden-eye, 3; Am. merganser, 29; turkey vulture, 5; black vulture, 39; Cooper's hawk, 1; red-tailed hawk, 1; red-shouldered hawk, 7; marsh hawk, 9; sparrow hawk, 30; bob-white, 2; killdeer, 18; herring gull, 240; mourning dove, 15; rock dove, 12; screech owl, 1; barred owl, 2; belted kingfisher, 6; flicker, 33; red-bellied woodpecker, 35; yellow-bellied sapsucker, 7; hairy woodpecker, 8; downy woodpecker, 53; phoebe, 1 (W.M.C., S.C.T.); horned lark, 451; blue jay, 53; crow, 134; Carolina chickadee, 125; tufted titmouse, 109; white-breasted nuthatch, 23; brown creeper, 13; winter wren, 5; Carolina wren, 49; short-billed marsh wren, 1 (B.L.M.); mockingbird, 61; robin, 28; bluebird, 95; golden-crowned kinglet, 20; ruby-crowned kinglet, 2; cedar waxwing, 15; starling, 2000 (est.); myrtle warbler, 16; palm warbler, 2 (M.S., A.S.); English sparrow, 367; meadowlark, 35; cardinal, 279; purple finch, 6; goldfinch, 46; red-eyed towhee, 16; slate-colored junco, 429; tree sparrow, 26; chipping sparrow, 2 (W.M.C.); field sparrow, 17; white-crowned sparrow, 27; white-throated sparrow, 6; fox sparrow, 7; swamp sparrow, 27; song sparrow, 133; Lapland longspur, 7 (1 collected by B.L.M.). **Total,** 65 species; about 6297 individuals. (Dec. 24: migrant shrike, 2; Dec. 29: hooded merganser, 1; Dec. 31: hermit thrush, 1.)—Mr. and Mrs. Leonard Brecher, Floyd

Carpenter, William M. Clay, Mr. and Mrs. Carl C. Cornett, Harvey B. Lovell, John H. Lovell II, David McClure, Howard Mitchell, Burt L. Monroe, Burt L. Monroe, Jr., Robert Petree, Louis Pieper, Evelyn Schneider, Walter Shackleton, Mabel Slack, Anne Stamm, Mr. and Mrs. S. Charles Thacher (Beckham chapter, Kentucky Ornithological Society).

188. Mammoth Cave National Park, Ky. (Doyle Valley, new entrance, Joppa Ridge, hotel area, pump houses; stream banks 5%, woods 40%, old fields 40%, ponds and marshes 15%).—Dec. 24; 6:40 a.m. to 4:40 p.m. Partly cloudy; ground bare; wind SW, 1-7 m.p.h.; temp. 32° to 52°. Two observers together. Total hours, 20; total miles, 8 (on foot). Mallard, 40; black vulture, 5; red-tailed hawk, 1; sparrow hawk, 1; bob-white, 20; belted kingfisher, 1; flicker, 12; pileated woodpecker, 8; red-bellied woodpecker, 3; yellow-bellied sapsucker, 1; hairy woodpecker, 2; downy woodpecker, 6; phoebe, 1; horned lark, 2; blue jay, 16; crow, 21; Carolina chickadee, 35; tufted titmouse, 26; white-breasted nuthatch, 7; brown creeper, 2; winter wren, 2; Carolina wren, 12; mockingbird, 11; robin, 214 (the bird find of the day); hermit thrush, 5; bluebird, 22; golden-crowned kinglet, 8; cedar waxwing, 230; starling, 4; myrtle warbler, 27; English sparrow, 12; meadowlark, 1; rusty blackbird, 21; cardinal, 54; purple finch, 63; goldfinch, 22; red-eyed towhee, 5; slate-colored junco, 98; tree sparrow, 15; field sparrow, 12; white-crowned sparrow, 4; white-throated sparrow, 8; fox sparrow, 2; swamp sparrow, 11; song sparrow, 38. **Total,** 45 species; 1111 individuals.—H. W. Lix (Park Naturalist), Gordon Wilson.

189. Paducah, Ky. (along the Ohio and Tennessee rivers for 5 miles south and 3 miles north of Paducah, through hardwoods and open fields within a 10-mile radius).—Dec. 21; 10 a.m. to 5 p.m. Partly cloudy in a.m., clear in p.m.; wind light, W to NW; temp. 40° at start, 48° at return. Observer alone in car and afoot. Total miles, 60 (55 by car, 5 on foot). Horned grebe, 1; buffle-head, 2; sparrow hawk, 2; killdeer, 3; herring gull, 55; ring-billed gull, 20; mourning dove, 1; flicker, 3; red-bellied woodpecker, 2; red-headed woodpecker, 1; yellow-bellied sapsucker, 1; hairy woodpecker, 2; downy woodpecker, 6; blue jay, 32; crow, 16; chickadee, 13; tufted titmouse, 18; winter wren, 2; Carolina wren, 5; mockingbird, 9; robin, 2; bluebird, 14; starling, 65; English sparrow, 150 (est.); meadowlark, 5; red-wing, 8; cowbird, 250 (est. in 3 flocks); cardinal, 26; goldfinch, 15; red-eyed towhee, 6; junco, 60; tree sparrow, 28; white-throated sparrow, 1; song sparrow, 1. **Total,** 34 species; approximately 825 individuals. — E. Esther Smith.

190. Elizabethton, Tenn. (center of 7½-mile radius: Valley Forge, about 4 miles south of Elizabethton; Watauga River banks and bottoms s.e. to n.w. of Elizabethton, Wilbur Lake, foot of Iron Mt., north slope of Holston Mt., Buffalo, Dry and Gap Creeks, hills south and east of Milligan College, golf course surroundings, Parkway Blvd., and Allen Ave. extensions; stream courses 25%, lake shore 5%, deciduous woodland 35%, fields, pastures, and thickets 30%, city suburbs 5%).—Dec. 22; dawn to dusk. Cloudy in early morning, clearing at noon; temp. 30° to 50° F.; wind NNW, 12-18 m.p.h.; ground bare, traces of snow preceding night vanished by midmorning. Eleven observers in 10 parties. Total party hours, 38; total party miles, 46 (30 on foot, 16 by car). Shoveller, 2; lesser scaup, 2; Cooper's hawk, 2; buteo (sp.?), 2; sparrow hawk, 5; bob-white, 1; killdeer, 1; mourning dove, 12; screech owl, 1; belted kingfisher, 2; flicker 13; red-bellied woodpecker, 4; yellow-bellied sapsucker, 3; hairy woodpecker, 2; downy woodpecker, 29; phoebe, 3; horned lark, 7; blue jay, 7; crow, 164; Carolina chickadee, 55; tufted titmouse, 37; white-breasted nuthatch, 1; red-breasted nuthatch, 2; brown creeper, 3; winter wren, 3; Carolina wren, 36; mockingbird, 15; robin, 4; bluebird, 42; golden-crowned kinglet, 50; ruby-crowned kinglet, 9; cedar waxwing, 73; migrant shrike, 2; starling, 62; myrtle warbler, 72; English sparrow, 107; meadowlark, 23; cardinal, 69; purple finch, 3; goldfinch, 199; towhee, 5; slate-colored junco, 96; field sparrow, 76; white-crowned sparrow, 28; white-throated sparrow, 46; fox sparrow, 7; swamp sparrow, 1; song sparrow, 38. **Total,** 48 species; approximately 1426 individuals.—Mr. and Mrs. Fred W. Behrend, J. C. Browning, Mary Cook, Mrs. Hugo Doob, Dr. and Mrs. Lee Roy Herndon, Prof. S. J. Hyder, Mrs. George K. Leonard (Elizabethton chapter, Tennessee Ornithological Society), W. F. Pearson, Kingsport, Tenn., Dr. J. T. Tanner, Johnson City, Tenn.

191. Erin, Tenn. (north to Cumberland River, including Dolomite, Wells Creek Basin, Schmidt Branch, Brigham Branch, and Marable Hollow). —Dec. 26; 8 a.m. to 4 p.m. Fair; no wind. Three observers. Total miles, 10 (on foot). Turkey vulture, 2; black vulture, 3; red-tailed hawk, 3; marsh hawk, 1; sparrow hawk, 2; killdeer, 2; kingfisher, 3; flicker, 2; pileated woodpecker, 1; red-bellied woodpecker, 2; yellow-bellied sapsucker, 2; hairy woodpecker, 2; downy woodpecker, 3; phoebe, 1; prairie horned lark, 13; blue jay, 5; crow, 8; Carolina chickadee, 5; tufted titmouse, 6; brown creeper, 1; Carolina wren, 6; mockingbird, 2; hermit thrush, 1; bluebird, 8; golden-crowned kinglet, 2; pipit, 2; starling, 1; myrtle warbler, 5; English sparrow, 10; meadowlark, 25 (flock); cardinal, 14; purple finch, 1; goldfinch, 3; towhee, 3; junco, 16; field

sparrow, 4; white-throated sparrow, 20; fox sparrow, 3; swamp sparrow, 1; song sparrow, 6. **Total,** 40 species; 200 individuals. — Eddy Clebsch, Alfred Clebsch, Jr., Alfred Clebsch, Sr.

192. Great Smoky Mountains National Park, Tenn. (same area as in past 9 years; circle with 7½-mile radius centering on Bull Head of Mt. LeConte, including a section of the Tennessee-North Carolina divide from Collins Gap to Mt. Kephart; towns of Gatlinburg and Pigeon Forge; spruce-fir forest 35%, open farmland 30%, towns and suburbs 20%, abandoned fields 10%, deciduous forest 5%).—Dec. 29; dawn to dusk. Heavy rain throughout a.m., clearing in p.m.; temp. 50° to 70°; wind occasionally strong but mostly moderate; ground bare and wet at all altitudes; streams running at near-flood stage. Altitude range 1200 to 6000 ft. Twenty-one observers in 8 parties. Total party hours, 42; total miles, 135 (100 by car, 35 on foot). Turkey vulture, 48; red-tailed hawk, 2; red-shouldered hawk, 1 (fresh remains of 1 that had been killed and partially eaten); duck hawk, 2; sparrow hawk, 1; ruffed grouse, 3; bob-white, 3; killdeer, 7; Wilson's snipe, 1; mourning dove, 22; screech owl, 1; kingfisher, 4; pileated woodpecker, 1; yellow-bellied sapsucker, 1; downy woodpecker, 2; phoebe, 3; raven, 4; crow, 80; chickadee (both black-capped and Carolina observed), 147; tufted titmouse, 4; red-breasted nuthatch, 11; brown creeper, 1; winter wren, 3; Carolina wren, 12; mockingbird, 6; robin, 9; hermit thrush, 5; bluebird, 30; golden-crowned kinglet, 62; ruby-crowned kinglet, 17; pipit, 120 (est. in 1 flock); cedar waxwing, 13; migrant shrike, 1; starling, 143 (est.); myrtle warbler, 11; English sparrow, 73; meadowlark, 28; cowbird, 30; cardinal, 128; purple finch, 2; pine siskin, 4; goldfinch, 45; red crossbill, 1; towhee, 3; savannah sparrow, 5; junco (both slate-colored and Carolina represented), 218; field sparrow, 79; white-throated sparrow, 22; song sparrow, 40. **Total,** 51 species and subspecies; approximately 1459 individuals. (Seen in area Dec. 26-30: sharp-shinned hawk, 1; turkey, 2; palm warbler, 1; fox sparrow, 1; flocks of up to 40 pine siskins.)—Mr. and Mrs. Harvey Broome, Mary Ruth Chiles, Brockway Crouch, Edward Dougherty, Mr. and Mrs. R. J. Dunbar, Harry Henry, Elizabeth Johnson, William M. Johnson, Mr. and Mrs. Robert Monroe, Elise Morrell, W. F. Pearson, Norman Russell, Dr. and Mrs. Royal E. Shanks, Arthur Stupka, W. A. Sutherland, Paul Yambert, William Yambert (members and guests, Tennessee Ornithological Society and National Park Service).

193. Greeneville, Tenn. (David Crocket Lake area, River Hill, golf course, Reed farm along Roaring Fork Creek, Tusculum College campus, and surrounding area; open fields 65%, woods 25%, stream banks 10%).—Dec. 27; dawn to dusk. Misty, with intermittent rain; temp. 50° to 60°; no wind. Six observers in 4 parties. Total hours, 20; total miles, 38 (8 on foot, 30 by car). Turkey vulture, 4; Cooper's hawk, 1; sparrow hawk, 3; bob-white, 9; mourning dove, 107; kingfisher, 2; flicker, 6; pileated woodpecker, 2; red-bellied woodpecker, 5; yellow-bellied sapsucker, 2; hairy woodpecker, 2; downy woodpecker, 12; phoebe, 2; prairie horned lark, 35; blue jay, 22; crow, 2050 (est.); Carolina chickadee, 56; tufted titmouse, 52; white-breasted nuthatch, 2; winter wren, 4; Carolina wren, 28; mockingbird, 25; robin, 10; bluebird, 38; golden-crowned kinglet, 3; cedar waxwing, 37; starling, 260; myrtle warbler, 18; English sparrow, 116; meadowlark, 47; cardinal, 56; purple finch, 21; goldfinch, 118; towhee, 2; Henslow's sparrow, 6 (R.N.) [no further details; no winter records for Tenn.; = savannah sparrow?—Ed.]; vesper sparrow, 7; junco, 25; tree sparrow, 3 (J.B.W.); field sparrow, 21; white-crowned sparrow, 29; white-throated sparrow, 12; song sparrow, 14. **Total,** 42 species; about 3274 individuals. (Seen in area Dec. 26: grackle; Dec. 28: ruby-crowned kinglet.)—Mrs. Willis Clemens, C. M. Shanks, Mr. and Mrs. J. B. White, Mr. and Mrs. Richard Nevius.

194. Henderson, Tenn. (same route as in previous years; vicinity of Henderson, 2 miles east to Chickasaw Park west, including Lakes LaJoie and Placid).—Dec. 21; 8 a.m. to 5 p.m. Fair; brisk NW wind; temp. 35° to 50°. Three observers. Total miles, 50 (5 on foot, 45 by car). Pied-billed grebe, 1; mallard, 6; black duck, 4; ring-necked duck, 2; turkey vulture, 42; black vulture, 21; red-tailed hawk, 1; red-shouldered hawk, 4; marsh hawk, 1; sparrow hawk, 2; killdeer, 3; mourning dove, 2; belted kingfisher, 1; flicker, 10; red-bellied woodpecker, 11; yellow-bellied sapsucker, 4; hairy woodpecker, 2; downy woodpecker, 13; blue jay, 35; crow, 12; chickadee, 27; tufted titmouse, 5; brown creeper, 1; winter wren, 1; Bewick's wren, 1; Carolina wren, 10; mockingbird, 3; robin, 2; hermit thrush, 3; bluebird, 7; golden-crowned kinglet, 6; ruby-crowned kinglet, 3; migrant shrike, 4; starling, 5; myrtle warbler, 2; English sparrow, 63; meadowlark, 63; red-wing, 7; rusty blackbird, 4; cardinal, 35; purple finch, 2; goldfinch, 11; red-eyed towhee, 2; junco, 27; field sparrow, 42; white-crowned sparrow, 15; white-throated sparrow, 18; fox sparrow, 3; swamp sparrow, 28; song sparrow, 17. **Total,** 50 species; 594 individuals.—William Malone, Bill Tarpley, Robert L. Witt.

195. Memphis, Tenn. (same area as in previous 10 years, not covering Mound City chute, N. 2nd St. Rd. north of Wolf River, Mud Island, and no one up river in boat; Piney Woods, our

only one, cut off about 1943, south end of Mud Island cleared entirely of trees, some suburban sections built up; old coverage adhered to, preparatory to some change for subsequent years; wooded bottomlands 45%, deciduous woodlots including city parks 20%, airports, pasture, and old cottonfields 15%, suburban roadsides 20%). —Dec. 22; 6:45 a.m. to 4:45 p.m. Sunny; muddy; calm to 5-15 m.p.h. S wind in p.m.; temp. 30° to 61° to 58°. Twenty-eight observers in 8 parties, the 3 main parties breaking up variously at localities worked. Total party hours, 88; total party miles, 160 (50 on foot, 110 by auto). Great blue heron, 6; turkey vulture, 34; black vulture, 9; Cooper's hawk, 5; red-tailed hawk, 10; red-shouldered hawk, 7; marsh hawk, 6; sparrow hawk, 37; bob-white, 57; killdeer, 257; Wilson's snipe, 1; least sandpiper, 1 (Clark, verified by B. Coffey, D. Smith, Mount, 4 ft., good light); ring-billed gull, 39; mourning dove, 58; great horned owl, 2; barred owl, 3; belted kingfisher, 3; flicker, 112; red-bellied woodpecker, 59; red-headed woodpecker, 28; yellow-bellied sapsucker, 26; hairy woodpecker, 20; downy woodpecker, 55; horned lark, 88; blue jay, 431; crow, 115; fish crow, 3; Carolina chickadee, 220; tufted titmouse, 115; white-breasted nuthatch, 1; brown creeper, 23; winter wren, 17; Bewick's wren, 1; Carolina wren, 131; mockingbird, 152; brown thrasher, 31; robin, 370; hermit thrush, 47; bluebird, 49; golden-crowned kinglet, 161; ruby-crowned kinglet, 27; Am. pipit, 3; cedar waxwing, 121; migrant shrike, 53; starling, 5644; myrtle warbler, 226; English sparrow, 640; meadowlark, 174; red-wing, 359; bronzed grackle, 4985; cowbird, 20; unidentified blackbirds, 10,000 (est.); cardinal, 488; purple finch, 113; goldfinch, 309; towhee, 165; savannah sparrow, 8; Leconte's sparrow, 3; slate-colored junco, 840; field sparrow, 156; white-crowned sparrow, 18; white-throated sparrow, 854; fox sparrow, 21; swamp sparrow, 82; song sparrow, 198; Lapland longspur, 180. **Total,** 65 species; about 28,477 individuals.—Mr. and Mrs. Ben B. Coffey, Jr., Mrs. Floy Barefield, Fred T. Carney, Herbert Clark, Mrs. Irene R. Daniel, Mary Davant, Mrs. Ruth Harrison, Bill Heard, Mr. and Mrs. Luther F. Keeton, Lawrence C. Kent, Franklin McCamey, Jr., Jim McWhorter, Clarence E. Moore, Patricia Moore, Joe Mount, Eugene Parish, Albert L. Powell, Ella Ragland, Mrs. Sarah O. Rogers, Grady Sanders, Alice Smith, Demett Smith, Mrs. M. L. Torti, Maurice Torti, Rose Woolridge, Alan Ziegler (Memphis chapter, Tennessee Ornithological Society).

196. Nashville, Tenn. (Radnor Lake, Overton Hills forest, Leawood, Hobbs Road to Tyne Lane, Warner parks, Bellemeade, Hillwood, Davidson Road, West Nashville, River Road, Cumberland River bottoms of Bells Pond, Jordonia; open fields 20%, dense woods 20%, wooded pastures 30%, thickets and old fields 30%).—Dec. 22; 7:30 a.m. to 4:30 p.m. (owls heard later). Clear; visibility fine; temp. 27° to 51°; very little wind; ground bare (no snow this season). Twenty-two observers in 9 parties. Total party hours, 56; total party miles, 76 (31 on foot, 45 by car). Mallard, 50; black duck, 2; baldpate, 2; ring-necked duck, 6; canvas-back, 2; lesser scaup, 6; Am. golden-eye, 1; black vulture, 24; Cooper's hawk, 6; red-tailed hawk, 17; red-shouldered hawk, 1; marsh hawk, 1; sparrow hawk, 29; bob-white, 28; coot, 1; killdeer, 73; Wilson's snipe, 1; mourning dove, 129; barn owl, 1 (in nesting cavity); screech owl, 1; great horned owl, 4; belted kingfisher, 4; flicker, 46; pileated woodpecker, 22; red-bellied woodpecker, 28; yellow-bellied sapsucker, 21; hairy woodpecker, 13; downy woodpecker, 67; phoebe, 2; blue jay, 44; horned lark, 176; crow, 106; Carolina chickadee, 148; tufted titmouse, 104; white-breasted nuthatch, 8; brown creeper, 10; winter wren, 3; Bewick's wren, 5; Carolina wren, 113; mockingbird, 106; robin, 493 (250 at a roost); hermit thrush, 7; bluebird, 158; golden-crowned kinglet, 17; ruby-crowned kinglet, 1; cedar waxwing, 11; migrant shrike, 5; starling, 1010; myrtle warbler, 56; English sparrow, 510 (300 at roost); meadowlark, 150; red-wing, 4; rusty blackbird, 35; bronzed grackle, 7 (vast numbers at a roost 20 miles east); cowbird, 550 (400 at a roost); cardinal, 390; purple finch, 16; goldfinch, 157; red-eyed towhee, 107; savannah sparrow, 1; slate-colored junco, 181; field sparrow, 90; white-crowned sparrow, 83; white-throated sparrow, 116; fox sparrow, 4; swamp sparrow, 8; song sparrow, 94. **Total,** 67 species; about 5726 individuals.—B. H. and Mrs. Abernathy, Tommy Barr, H. G. Bradley, Bill Crouch, Albert F. Ganier, Robert M. and Mrs. Hawkins, Amelia R. Laskey, Arthur McMurray, George R. and Mrs. Mayfield, Donald Maynard, J. A. Robins, E. D. Schreiber, Robert Sollman, W. R. Spofford, Luttrell Thomas, H. S. Vaughn, W. M. and Mrs. Walker G. B. Woodring (members Nashville chapter, Tennessee Ornithological Society).

197. Reelfoot Lake, Tenn. (Mississippi River at Tiptonville and along lake by road to Samburg to Walnut Log; also State Highway 78 south from Kentucky line; lake shore with cypress, willow, and part open 60%, open fields 25%, deciduous woodland 15%).—Dec. 25; 6:50 a.m. to 3:30 p.m. Fair; light wind in p.m.; temp. 33° to 57°. Four observers together in car for 45 miles, occasional short stops; island along south side of Upper Blue Basin under water, eliminating a 3-mile walk as in 1940. Pied-billed grebe, 10; double-crested cormorant, 4; great blue heron, 8; lesser scaup, 52; Am. golden-eye, 25; turkey vulture, 1; black vulture, 2; Cooper's hawk, 1; red-tailed hawk, 5; red-shouldered

hawk, 3; bald eagle, 6; marsh hawk, 1; sparrow hawk, 5; killdeer, 12; herring gull, 16; ring-billed gull, 12; mourning dove, 2; barred owl, 2; belted kingfisher, 5; flicker, 8; pileated woodpecker, 7; red-bellied woodpecker, 5; yellow-bellied sapsucker, 1; hairy woodpecker, 2; downy woodpecker, 14; blue jay, 16; crow, 24; Carolina chickadee, 35; tufted titmouse, 14; brown creeper, 2; winter wren, 3; Carolina wren, 15; long-billed marsh wren, 4; mockingbird, 7; hermit thrush, 2; bluebird, 8; golden-crowned kinglet, 30; ruby-crowned kinglet, 8; Am. pipit, 3; migrant shrike, 22; starling, 1594; myrtle warbler, 18; English sparrow, 65; meadowlark, 10; red-wing, 1447; rusty blackbird, 10; bronzed grackle, 855; cowbird, 268; unidentified blackbirds, 8500; cardinal, 182; purple finch, 2; goldfinch, 15; towhee, 1; savannah sparrow, 4; slate-colored junco, 87; tree sparrow, 13; field sparrow, 47; white-crowned sparrow, 2; white-throated sparrow, 74; fox sparrow, 3; swamp sparrow, 6; song sparrow, 55. **Total,** 61 species; about 13,660 individuals.—Mr. and Mrs. Ben B. Coffey, Jr., Herbert Clark, Alan Ziegler (Memphis).

198. Birmingham, Ala. (Edgewood Lake, Lake Purdy, Oak Mountain State Park, and environs of city including airports; center of area same as in 1944; mixed hardwoods and pine 50%, lake front 25%, pine woods 5%, uncultivated fields and pastures 20%).—Dec. 29. Heavily overcast, rain in a.m.; temp. 67° at start, 46° at return; wind SE shifting to NW, 8-21 m.p.h.; ground bare. Ten observers in 3 parties. Total hours, 46; total miles, 108 (55 by car, 53 on foot). Pied-billed grebe, 14; ring-necked duck, 19; lesser scaup, 4; ruddy duck, 35; Cooper's hawk, 3; red-tailed hawk, 3; red-shouldered hawk, 3; sparrow hawk, 5; bob-white, 18; coot, 350; killdeer, 123; mourning dove, 70; barred owl, 1; belted kingfisher, 8; flicker, 28; pileated woodpecker, 9; red-bellied woodpecker, 16; red-headed woodpecker, 3; yellow-bellied sapsucker, 3; hairy woodpecker, 10; downy woodpecker, 20; red-cockaded woodpecker, 3; phoebe, 7; blue jay, 85; crow, 33; Carolina chickadee, 67; tufted titmouse, 57; white-breasted nuthatch, 15; brown-headed nuthatch, 5; brown creeper, 7; winter wren, 2; Bewick's wren, 2; Carolina wren, 83; mockingbird, 45; brown thrasher, 12; robin, 48; hermit thrush, 7; bluebird, 65; golden-crowned kinglet, 219; ruby-crowned kinglet, 101; Am. pipit, 4; cedar waxwing, 160; loggerhead shrike, 1; starling, 4800 (est.); myrtle warbler, 22; pine warbler, 26; palm warbler, 15; English sparrow, 340; meadowlark, 268; red-wing, 28; rusty blackbird, 35; grackle, 240; cowbird, 12; cardinal, 153; purple finch, 17; pine siskin, 3; goldfinch, 132; red-eyed towhee, 220; savannah sparrow, 78; vesper sparrow, 13; slate-colored junco, 190; chipping sparrow, 54; field sparrow, 270; white-throated sparrow, 487; fox sparrow, 23; swamp sparrow, 83; song sparrow, 129. **Total,** 67 species; about 9411 individuals. (Both species and individuals of waterfowl were fewer than on any previous count; none of any consequence seen at any time during fall season. Two woodcock seen at Oak Mountain Dec. 15.)—M. F. Prather, Morton Perry, Henry Stevenson, Branch Howe, W. H. Caruthers, Tom Imhoff, Samuel R. Tipton, Bernard Clowdus, Bill Walker, John Lee (Birmingham Bird Club).

199. Moon Lake (Lula), Miss. (same route as in 1940 and 1941; lake from shoreline drive, 35%; levee, 5%; narrow bayou, timbered, 5%; highway and old cotton fields and pasture, 35%; weedy fields, 10%; low wooded bottoms, 10%).—Dec. 29; 7:15 a.m. to 5 p.m. Overcast until noon, then cloudy; fields full of water from night's storm with wind about 30 m.p.h.; wind, fresh; temp. 52° to 32°. Total miles by car, 60. Six observers together except in 5 parties 1 hour on foot in bottoms. A 25x telescope used on water birds in addition to usual 8x and 10x glasses. Horned grebe, 2; pied-billed grebe, 3; double-crested cormorant, 143; great blue heron, 2; mallard, 41; black duck, 1; pintail, 2; ring-necked duck, 15; canvas-back, 2; lesser scaup, 4; buffle-head, 1; ruddy duck, 774; turkey vulture, 3; black vulture, 23; red-tailed hawk, 5; marsh hawk, 5; sparrow hawk, 9; bob-white, 9; coot, 16; killdeer, 131; Wilson's snipe, 1; herring gull, 16; ring-billed gull, 55; Bonaparte's gull, 1 (imm.; chased by other gulls, small size readily apparent to all, white wings, etc., noted at 150 yds.—L. Coffey, Carney); mourning dove, 46; barred owl, 1; belted kingfisher, 1; flicker, 8; red-bellied woodpecker, 13; yellow-bellied sapsucker, 2; hairy woodpecker, 1; downy woodpecker, 4; phoebe, 1; blue jay, 16; crow, 5; Carolina chickadee, 16; brown creeper, 1; winter wren, 4; Carolina wren, 9; mockingbird, 9; brown thrasher, 5; hermit thrush, 5; bluebird, 5; golden-crowned kinglet, 26; ruby-crowned kinglet, 13; Am. pipit, 15; loggerhead shrike, 18; starling, 891; myrtle warbler, 33; English sparrow, 91; meadowlark, 114; red-wing, 46; bronzed grackle, 25; unidentified blackbirds, 240; cardinal, 101; purple finch, 1; goldfinch, 11; towhee, 11; savannah sparrow, 56; slate-colored junco, 15; field sparrow, 36; white-throated sparrow, 250; fox sparrow, 41; swamp sparrow, 27; song sparrow, 94; Lapland longspur, 12. **Total,** 65 species; 3583 individuals.—Mr. and Mrs. Ben B. Coffey, Jr., Fred T. Carney, Herbert Clark, Demett Smith, Alan Ziegler (1st Memphis Rovers).

200. Tupelo, Miss. (open farmlands and pasture along Highway 78, west and east, and Legion Lake, 30%; town with U.S. Fish Hatchery, Gum Pond, and weedy fields nearby, 30%;

deciduous woods and lake of Tombigbee State Park, 30%; mixed pines and hardwoods, 10%). —Dec. 24; 7 a.m. to 5 p.m. Overcast until 2:30 p.m.; muddy; temp. 50° to 60°. Three observers together. Total miles, 27 (25 by car, 2 on foot). Pied-billed grebe, 10; double-crested cormorant, 1; mallard, 80; black duck, 1; ring-necked duck, 188; canvas-back, 4; Am. golden-eye, 2; turkey vulture, 48; black vulture, 27; red-tailed hawk, 2; red-shouldered hawk, 1; marsh hawk, 1; sparrow hawk, 2; bob-white, 10; coot, 2; killdeer, 46; Wilson's snipe, 31; mourning dove, 93; belted kingfisher, 2; flicker, 22; red-bellied woodpecker, 9; red-headed woodpecker, 5; yellow-bellied sapsucker, 1; hairy woodpecker, 2; downy woodpecker, 10; phoebe, 4; blue jay, 41; crow, 175; Carolina chickadee, 20; tufted titmouse, 11; white-breasted nuthatch, 4; brown creeper, 8; winter wren, 1; Bewick's wren, 1; Carolina wren, 21; mockingbird, 10; brown thrasher, 2; robin, 1; hermit thrush, 3; bluebird, 23; golden-crowned kinglet, 39; ruby-crowned kinglet, 4; Am. pipit, 1; migrant shrike, 5; starling, 510; myrtle warbler, 13; pine warbler, 4; English sparrow, 58; meadowlark, 65; red-wing, 42; rusty blackbird, 20; bronzed grackle, 143; cowbird, 37; unidentified blackbirds, 90; cardinal, 36; purple finch, 1; goldfinch, 36; towhee, 20; savannah sparrow, 6; slate-colored junco, 73; field sparrow, 73; white-crowned sparrow, 11; white-throated sparrow, 108; fox sparrow, 8; swamp sparrow, 20; song sparrow, 50. **Total,** 65 species; 2398 individuals.—Ben B. Coffey, Jr., Herbert Clark, Alan Ziegler (Memphis).

201. Ann Arbor, Mich. (Huron River valley and adjoining areas from 6 miles northwest of town to 6 miles southeast of town, and north to Whitmore, Mud, and Independence Lakes; abandoned fields and roadsides 23%, bottomland and river 17%, deciduous woodlots 30%, coniferous plantations 8%, farmlands 6%, bog 16%). —Dec 21; 7:30 a.m. to 5 p.m. Cloudy, light snowfall in forenoon; temp. 29° to 33° F.; wind NW, 1-5 m.p.h.; 3-inch snow; lakes frozen, river 75% frozen. Ten observers in 3 parties. Total hours, 24 (22 on foot, 2 in car); total miles, 71 (31 on foot, 40 in car). Mallard, 13; black duck, 200 (est.); Am. golden-eye, 1; Am. merganser, 1; Cooper's hawk, 1; red-tailed hawk, 1; marsh hawk, 2; ruffed grouse, 1; ring-necked pheasant, 13; mourning dove, 10; belted kingfisher, 1; flicker, 11; hairy woodpecker, 2; downy woodpecker, 25; horned lark, 25; blue jay, 42; crow, 4; black-capped chickadee, 96; tufted titmouse, 37; white-breasted nuthatch, 26; brown creeper, 3; golden-crowned kinglet, 27; cedar waxwing, 2; starling, 100 (est.); English sparrow, 575+; cardinal, 80; purple finch, 1; goldfinch, 46; red-eyed towhee, 1; slate-colored junco, 30; tree sparrow, 100 (est.); song sparrow, 4. **Total,** 32 species; about 1481 individuals.—David Delzell, John George, J. D. Goodman, H. W. Hann, P. B. Hofslund, J. B. Kitzmiller, M. E. McDonald, Jeanne Moore, Robert Patterson, Harry Wilcox.

202. Battle Creek, Mich. (Irving Park, Kalamazoo River west of city to Gull Lake and return, 5 feeding stations; in parts of Calhoun and Kalamazoo counties; open farmland 15%, wooded river and stream banks 40%, shrubby fence growths and highway borders 25%, lake front 10%, feeding stations 10%).—Dec. 29; 8:30 a.m. to 5 p.m. Cloudy, snowing very hard all day (about 4.6 inches); visibility very poor; small lakes frozen, Gull Lake almost entirely open, rivers open; wind, about 25 m.p.h.; temp. 28° in a.m., about 10° in p.m. Ten observers in 6 parties. Total miles, 76 (71 by car, 5 on foot); total hours, approximately 40. Canada goose, 9 (plus large raft on Gull Lake that could be heard only); mallard, 575; black duck, 275; Am. golden-eye, 31; sharp-shinned hawk, 1; pigeon (?) hawk, 1; ring-necked pheasant, 2; mourning dove, 1; red-bellied woodpecker, 1; hairy woodpecker, 4; downy woodpecker, 23; blue jay, 23; crow, 2; chickadee, 64; tufted titmouse, 41; white-breasted nuthatch, 21; brown creeper, 1; starling, 19; myrtle warbler, 1 (visited Mrs. Theis's feeding station all day); English sparrow, 183; cardinal, 56; purple finch, 7; goldfinch, 12; slate-colored junco, 75; tree sparrow, 28. **Total,** 25 species; 1456 individuals, plus raft of Canada geese on Gull Lake. (Observed Dec. 28: buffle-head; Dec. 30: towhee.)—Edward M. Brigham, Jr., Edward M. Brigham, 3rd, Mrs. L. C. Nielsen, Mr. and Mrs. N. Theodore Peterson, Miles D. Pirnie, Mrs. Harry J. Theis, Lawrence H. Walkinshaw, Mr. and Mrs. Halbert B. Wood.

203. Detroit, Mich. (centering at 14 Mile and Lahser Roads and extending to Pontiac to the north, 7 Mile Road to the south, Big Beaver to the east, and Drake Road to the west; open farm and grassland 30%, swamps, lake shores, and stream banks 30%, conifer groves 5%, mature deciduous woodlands 10%, second-growth deciduous woodlands 10%, town suburbs 15%).—Dec. 22; 8 a.m. to 5 p.m. Clear; temp. 29° to 32° F.; wind WNW, 7-9 m.p.h.; ground covered with 3 inches snow; 50% of lakes open; streams open. Twenty-six observers in 6 parties. Total hours, 42 (31 on foot, 11 by car); total miles, 244 (39 on foot, 205 by car). Mute swan, 1; mallard, 65; black duck, 72; Am. golden-eye, 38; Cooper's hawk, 3; red-tailed hawk, 2; red-shouldered hawk, 1; marsh hawk, 1; sparrow hawk, 9; ring-necked pheasant, 29; herring gull, 30; rock dove, 58; mourning dove, 37; hairy woodpecker, 4; downy woodpecker, 26; prairie horned lark, 20; blue jay, 30; crow, 86; black-capped chickadee, 160; tufted titmouse, 15; white-breasted nuthatch, 17; brown creeper, 8; golden-crowned kinglet, 26; cedar waxwing, 18; starling, 290

(est.); English sparrow, 540 (est.); cardinal, 28; purple finch, 12; goldfinch, 121; junco, 233; tree sparrow, 154; song sparrow, 8. **Total,** 32 species; about 2142 individuals. (Mourning doves were feeding at straw stacks and feeding stations at 4 places; purple finches feeding on tamarack cones in same tree where a flock was seen during the 1940 Christmas count.)—Oscar Noren, Dorothy Noren, Evelyn Dowlding, Hessel Tenhaye, Tom Roby, Don Wolcott, Neel Robertson, Kenneth Sanderson, Dick Sanderson, Paul Thompson, Edward Budde, Earl Rabe, Douglas White, Bob Burns, Gerald Battle, Keith Kreag, Bob Strain, Bob Starcks, Ralph O'Reilly, Cecil Billington, Anne Vanderheide, Doris Sibley, W. E. Ludwig, Morris Trittipo, Mary Totten, Walter P. Nickell (Detroit Audubon Society).

204. East Lansing, Mich. (across M.S.C. campus, along Red Cedar River, north to vicinity of Park Lake and return; deciduous woodlots 40%, open farmland 20%, brushy marsh and lake border 40%).—Dec. 28; dawn to dusk. Cloudy, with brief sun at midday; temp. 30° at start, 24° at end; wind NNW, 8-12 m.p.h.; ¼ inch fresh snow; lakes frozen. Three observers together. Total hours, 9 (8 on foot, 1 by car); total miles, 32 (12 on foot, 20 by car). Barn owl, 1; barred owl, 1; hairy woodpecker, 2; downy woodpecker, 6; blue jay, 9; crow, 2; chickadee, 16; tufted titmouse, 5; white-breasted nuthatch, 8; starling, 17; English sparrow, 130; cardinal, 15; goldfinch, 6; junco, 47; tree sparrow, 10; song sparrow, 1. **Total,** 16 species; 276 individuals. (Seen in area during count period: redpoll, 75; pheasant, 2; cedar waxwing, 6.)—Frank L. Glosser, Bruce V. Wilson, L. Claire Hulbert (Lansing Audubon Society).

205. Muskegon, Mich. (business section to north shore of Muskegon Lake to Dunes State Park, south side of lake to Lake Michigan channel and wooded dunes near Little Black Lake).—Dec. 29; 9:30 a.m. to 6 p.m. Snow in a.m., clear and partial sun in p.m.; temp. 23° in a.m., 18° in p.m.; wind NNE, 6-10 m.p.h. Total miles, 18-20 (by car and on foot). Mallard, 7; black duck, 270; canvas-back, 7; Am. goldeneye, 2900 (partly est.); old-squaw, 6; Cooper's hawk, 1; ruffed grouse, 1; herring gull, 1182 (partly est.); ring-billed gull, 1; flicker, 2; red-headed woodpecker, 3; downy woodpecker, 1; blue jay, 10; crow, 2; tufted titmouse, 2; ruby-crowned kinglet, 12 [no details; = golden-crowned kinglet?—Ed.]; starling, 63; English sparrow, 158; cardinal, 4; goldfinch, 11; slate-colored junco, 57; tree sparrow, 9; field sparrow, 2 [no details—Ed.]; song sparrow, 1; snow bunting, 150. **Total,** 25 species; about 4862 individuals.—A. Verne Fuller, Almeda Boulton, Eleanor Becker, Don Russell, George Wickstrom, Philip Glotfelty III, James Nutt, Cecil Kersting, Paul and Margaret Elliott (Muskegon County Bird Club).

206. Bedford, Ind. (approximately the same area as last year; deciduous woodland 65%, abandoned fields and pastures 25%, mixed pine and hardwoods 5%, yards and gardens 5%).—Dec. 27; 7 a.m. to 5 p.m. Overcast to clear at 10:30 a.m., clouding over again about 4 p.m.; wind SW, 4 m.p.h. most of day, changing to E, 12 m.p.h. in late p.m.; SW wind the night before about 45 m.p.h.; temp. 44° at start, 42° on return, much warmer during day; ground bare. One observer. Total hours, 10; total miles, 15 (on foot). Mourning dove, 21; screech owl, 1; red-bellied woodpecker, 3; downy woodpecker, 11; blue jay, 12; crow, 12; black-capped chickadee, 32; tufted titmouse, 26; brown creeper, 1; winter wren, 1; Carolina wren, 12; robin, 19; bluebird, 18; golden-crowned kinglet, 4; English sparrow, 192; cardinal, 25; towhee, 1; junco, 28; tree sparrow, 17; field sparrow, 2; song sparrow, 4. **Total,** 21 species; 442 individuals.—Carleton Thoroman.

207. Indianapolis, Ind. (along White River including Broad Ripple, Holliday Park, Butler University campus, Riverside, and Maywood; along Fall Creek to Geist Dam, Bacon's Swamp, suburbs and center of city; open farmland 10%, suburban deciduous woods 35%, swamp 5%, stream and river bank 35%, gravel pit 5%, lake 10%).—Dec. 21. Cloudy with light to heavy snow; temp. 30° to 32°; snow cover on ground; river partly frozen, lakes frozen except for duck-made openings. Twenty-seven observers in 13 parties. Total hours, 38 (on foot); total miles, 34 (on foot). Mallard, 1483; black duck, 105; green-winged teal, 1; sharp-shinned hawk, 3; Cooper's hawk, 2; red-shouldered hawk, 4; bald eagle, 2 (regular winter visitor at Geist Reservoir); sparrow hawk, 8; ring-necked pheasant, 1; killdeer, 5; herring gull, 1; rock dove, 535; mourning dove, 83; barn owl, 1 (roosts under water tower); belted kingfisher, 1; flicker, 15; red-bellied woodpecker, 9; hairy woodpecker, 8; downy woodpecker, 51; (northern?) horned lark, 13; prairie horned lark, 93; blue jay, 17; crow, 67; chickadee, 82; tufted titmouse, 65; white-breasted nuthatch, 31; brown creeper, 23; winter wren, 1; Carolina wren, 17; bluebird, 8; golden-crowned kinglet, 8; starling, 4478 (partly est.); English sparrow, 628; cardinal, 249; goldfinch, 162; slate-colored junco, 193; tree sparrow, 220; fox sparrow, 3; song sparrow, 35. **Total,** 39 species and subspecies; about 8711 individuals. (Seen Dec. 26: screech owl, 1 (dead); robin, 1; pine siskin, 4. Dec. 28: myrtle warbler, 1; bronzed grackle, 3.)—Mr. and Mrs. O. H. Mengering, Hans Mengering, Mr. and Mrs. Joel Hadley, Dr. J. E. Potzger, Mr. and Mrs. R. L. Black, H. F. Wright, Palmer Skaar, Richard

Photo by Roger T. Peterson

The brown thrasher was only one of a comparatively long list of species that wintered north of their normal range during the winter of 1946-47.

Skaar, Chas. Marks, Dr. and Mrs. Ray Friesner, Chas. Berriman, Dick Canida, Chas. Keller, Scott Calvert, Mildred Campbell, Dorothy White, G. D. Klopp, Steve Wainwright, David Mead, John P. Jones, Margaret Knox, Dale Rice, Ed Mockford (Central District, Indiana Audubon Society).

208. Kingman, Ind. (Kingman to Wabash River, Turkey Run State Park by way of Rockport Hills).—Dec. 24; 8:30 a.m. to 4 p.m. Partly cloudy; temp. 40° at start, 45° at return; ground bare but frozen. One observer. Total miles, 50 (45 by car, 5 on foot). Mallard, 25; turkey vulture, 5; Cooper's hawk, 1; red-tailed hawk, 3; marsh hawk, 1; sparrow hawk, 3; mourning dove, 26; red-bellied woodpecker, 1; hairy woodpecker, 1; downy woodpecker, 12; flicker, 3; prairie horned lark, 30; blue jay, 2; crow, 300 (est.); chickadee, 10; tufted titmouse, 27; white-breasted nuthatch, 1; Carolina wren, 2; bluebird, 6; golden-crowned kinglet, 2; starling, 200 (est.); English sparrow, 300 (est.); cardinal, 17; goldfinch, 10; junco, 45; tree sparrow, 27; song sparrow, 6. **Total,** 27 species; about 1066 individuals. **—Dorothy Madden Hobson.**

209. Lafayette, Ind. (15-mile diameter circle, center at top of hill of Route 52 bypass; Wabash River below Lafayette and above Battle Ground, Wildcat, Wea, Jordan and Indian Creeks, Cary Scout Camp, Headley's Lake, Blackbird Pond, Soldiers' Home, Happy Hollow, marsh by Route 53, Purdue campus, McCormick's Woods, fields NW and E of town; mature deciduous woods 14%, low woods and brush 12%, evergreen woods 1%, river-bottom 18%, creeks 23%, trifolium marsh 1%, open farmland 4%, open fields 23%, town 4%).—Dec. 23; 5:50 a.m. to 4:30 p.m. Overcast, clearing at 3 p.m., light rain from 12 until 2 p.m.; wind 18 m.p.h. SW to 14 WNW; temp. 40° to 46° to 42°; barometer 29.80 to 29.94; ground mostly bare; ponds and lake frozen, creeks and river open. Twenty-two observers in 8 parties. Total hours, 58 (53 on foot, 5 by car); total miles, 144 (71 on foot, 73 by car). Great blue heron, 1; Canada goose, 2; ring-necked duck, 1 (♂—I.W.B.); lesser scaup, 2; Am. golden-eye, 9; Cooper's hawk, 3; red-tailed hawk, 16; Am. rough-legged hawk, 2; bald eagle, 1 (ad., G.F., F.H.); marsh hawk, 12; sparrow hawk, 21; bob-white, 61; ring-necked pheasant, 1; herring gull, 7; rock dove, 355; mourning dove, 137; great horned owl, 2; long-eared owl, 5 (W.S., D.S.); short-eared owl, 1 (C.M.K.); belted kingfisher, 13; flicker, 20; red-bellied woodpecker, 20; red-headed woodpecker, 1; hairy woodpecker, 15; downy woodpecker, 149; horned lark, 9; blue jay, 72; crow, 1072; black-capped chickadee, 68; tufted titmouse, 158; white-breasted nuthatch, 17; brown creeper, 32; Carolina wren, 12; golden-crowned kinglet, 17; starling, 25,000 (mostly at roosts); myrtle warbler, 1 (R.M.); English sparrow, 1133; meadowlark, 35; bronzed grackle, 141; cowbird, 35; cardinal, 139; purple finch, 14; pine siskin, 21 (R.M.); goldfinch, 31; slate-colored junco, 271; tree sparrow, 241; white-crowned sparrow, 1 (adult seen at close range with binoculars—F.H.); song sparrow, 44. **Total,** 48 species; about 29,421 individuals. — Paul J. Bower, Donald Burch, Irving W. and Terry Burr, Clinton Conaway, William Dvonch, Robert Elrod, Gordon Fredine, Bruce, Gordon, and Richard Graves, John Hall, Frank Haller, Ross Horrall, Charles M. Kirkpatrick, Howard and Ted Michaud, Russell Mumford, William Ross, Wayne and Dorothy Silver, Roy Whistler.

210. Prairie Creek (Vigo Co.), Ind. (area west, north, and northeast of town—west for 1 mile, north for 1¼ miles, northeast for 2 miles; pastured woods 40%, unpastured woods 40%, pasture 10%, fields 5%, orchard 2%, gravel pits 3%).—Dec. 24; 7:30 a.m. to 4:30 p.m. Clear in a.m., cloudy in p.m.; temp. 29° to 43°; ground bare; ice on smaller ponds; wind 2-10 m.p.h., SW veering to NW. Two observers. Total hours, 9 (on foot); total miles, 11 (on foot). Red-shouldered hawk, 1; marsh hawk, 1; mourning dove, 47; belted kingfisher, 1; flicker, 5; red-bellied woodpecker, 8; hairy woodpecker, 4; downy woodpecker, 8; blue jay, 33; crow, 27; black-capped chickadee, 28; tufted titmouse, 23; Carolina wren, 5; bluebird, 5; golden-crowned kinglet, 2; starling, 12; English sparrow, 21; cardinal, 86; goldfinch, 40; slate-colored junco, 104; tree sparrow, 81; song sparrow, 17. **Total,** 22 species; 559 individuals. (Seen in area Dec. 22: barred owl, 1; red-breasted nuthatch, 2; brown creeper, 1; Carolina chickadee, 2 [seen and compared with other chickadees—H.R.].)—Hal Rynerson, James Walters.

211. South Bend, Ind. (St. Joseph River from Leeper Park along west bank through Pinhook and Riverview Cemetery to Darden Road, Ullery farm and Mud Lake, Notre Dame area, St. Joseph River east bank from St. Mary's through Izaak Walton tract to Bertrand, Rum Village, McErlain's woods, Chain-O-Lakes and South Bend Country Club, Merrifield Park and along both banks St. Joseph River to county line, Blair's woods to Baugo Creek, St. Joseph farm; deciduous woods 40%, marshland 25%, open farmland 20%, open river 10%, cedar and spruce groves 5%).—Dec. 29; dawn to dusk. Freezing rain and sleet followed by light to heavy snow after 9 a.m.; temp. 26° to 30° F.; wind NW, 0-2 m.p.h.; 4 inches snow on ground with heavy crust of ice on all vegetation; creeks and river open, lakes frozen. Twelve observers in 4 parties. Total hours, 33 (on foot); total miles, 42 (on foot). Green heron, 1 [no details—Ed.]; mallard,

49; black duck, 7; shoveller, 1; Am. golden-eye, 36; buffle-head, 1; Cooper's hawk, 1; red-shouldered hawk, 1; marsh hawk, 1; herring gull, 384; ring-billed gull, 3; rock dove, 36; mourning dove, 35; barred owl, 1; belted kingfisher, 1; flicker, 1; red-bellied woodpecker, 1; hairy woodpecker, 2; downy woodpecker, 26; prairie horned lark, 68; blue jay, 36; crow, 107; black-capped chickadee, 47; tufted titmouse, 26; white-breasted nuthatch, 21; red-breasted nuthatch, 1; robin, 7; starling, 123; English sparrow, 491; cardinal, 26; goldfinch, 8; slate-colored junco, 175; tree sparrow, 174; Lincoln's sparrow, 1 (seen regularly through Dec.); song sparrow, 7. **Total,** 35 species; about 1906 individuals.—Mr. and Mrs. M. C. Farrar, U. F. Coleman, LeRoy A. Pierce, E. E. Rodgers, W. F. Rodgers, H. L. Woolverton, M. D. Harbaugh, Bro. Edwin, C.S.C., V. Helman, Jr., Dale Strickler, C. K. Barnes (South Bend Audubon Society).

212. Bird Haven Sanctuary (Richland Co.), Ill. (farmlands to the north 10%, Fox River bottomlands to the west 20%, parks and streets of Olney 10%, deciduous forest of the sanctuary 60%).—Dec. 23; 8:30 a.m. to 4:30 p.m. Fair; wind 8-12 m.p.h.; temp. 40° at start; ground bare; water open. Three observers together. Total hours, 7; total miles, 10 (on foot). Red-shouldered hawk, 3; marsh hawk, 2; sparrow hawk, 2; bob-white, 8; mourning dove, 1; barred owl, 1; flicker, 3; red-bellied woodpecker, 6; red-headed woodpecker, 7; hairy woodpecker, 2; downy woodpecker, 7; horned lark, 12; blue jay, 27; crow, 62; chickadee, 21; tufted titmouse, 16; white-breasted nuthatch, 1; brown creeper, 4; Carolina wren, 7; mockingbird, 4; bluebird, 4; golden-crowned kinglet, 1; starling, 85; English sparrow, 84; cardinal, 26; goldfinch, 6; slate-colored junco, 34; tree sparrow, 15; song sparrow, 3. **Total,** 29 species; 454 individuals. (Seen in area Dec. 24: meadowlark, 5.)—Perna M. Stine, Mrs. Chester Scherer, Vera Scherer.

213. Brussels, Ill. (15-mile circle centered at Brussels, and including Pere Marquette State Park and Calhoun County Wildlife Refuge; Mississippi and Illinois River lowlands 75%, upland orchards and deciduous woods 25%).—Dec. 29. Mostly overcast; temp. 15° to 20°; wind N, 10-25 m.p.h.; ground bare. Thirty-one observers in 3 parties. Total hours, 21; total miles, 184 (162 by car, 22 on foot). Canada goose, 55; mallard, 5650; black duck, 10; pintail, 31; redhead, 3; ring-necked duck, 15; lesser scaup, 37; Am. golden-eye, 11; sharp-shinned hawk, 1; Cooper's hawk, 1; red-tailed hawk, 11; red-shouldered hawk, 1; bald eagle, 16; marsh hawk, 3; sparrow hawk, 3; bob-white, 22; coot, 2; killdeer, 3; Wilson's snipe, 1; herring gull, 50; ring-billed gull, 64; rock dove, 43 (in quarries); mourning dove, 5; barred owl, 1; flicker, 9; pileated woodpecker, 1; red-bellied woodpecker, 12; red-headed woodpecker, 1; hairy woodpecker, 7; downy woodpecker, 38; northern horned lark, 251; blue jay, 17; crow, 19; black-capped chickadee, 17; tufted titmouse, 122; white-breasted nuthatch, 3; brown creeper, 3; Carolina wren, 23; mockingbird, 1; robin, 2; bluebird, 27; golden-crowned kinglet, 4; starling, 251; English sparrow, 439 (est.); meadowlark, 1; red-wing, 2; cardinal, 360 (est.); goldfinch, 56; slate-colored junco, 850 (est.); tree sparrow, 1020; swamp sparrow, 1; song sparrow, 19. **Total,** 53 species; about 9595 individuals. (Seen in area Dec. 27: short-eared owl, 4.)—O. C. K. Hutchinson, Rev. George M. Link, Virginia Ward, Alice Waterbury, Lora Ward, Eda Ward, David Dale, Louis Wilhite, Beatrice Waterbury, Corida Hanna, Francis Woltmann, Peter Leach, Jeannot Chameau, James Meno, Neil Waterbury, Gilbert Knight, Joseph Arnold, Clifford Miller, Donald Knight, John Buese, John Decker, Alvin Jones, Herbert Roop, William Manes, Jackie Vincent, Cora Hutchinson, M. A. Berry, Lillian Berry, Al Kaszynski, Cecelia Kaszynski, Charles Laun (Pere Marquette Nature League and Trail Rangers of America).

214. Champaign-Urbana, Ill. (Sangamon River floodplain near White Heath, Brownfield and Trelease Woods, intermediate farmland; approximately 70% forest, 20% shrubby fields, 10% open country).—Dec. 21; 8 a.m. to 4:30 p.m. Snowing almost continuously; moderate W wind; temp. 32° F. Five observers in 2 parties. Total party hours, 8 (on foot); total party miles, 10 (on foot); 30 miles roadside observations. Red-tailed hawk, 1; red-shouldered hawk, 2; rough-legged hawk, 5; marsh hawk, 1; sparrow hawk, 1; bob-white, 19; ring-necked pheasant, 2; mourning dove, 2; barred owl, 1; flicker, 8; red-bellied woodpecker, 15; hairy woodpecker, 6; downy woodpecker, 27; prairie horned lark, 21; blue jay, 25; crow, 28; black-capped chickadee, 18; tufted titmouse, 35; white-breasted nuthatch, 17; brown creeper, 3; Carolina wren, 5; mockingbird, 1; robin, 1; golden-crowned kinglet, 2; starling, 250; English sparrow, 230; cardinal, 37; slate-colored junco, 50; tree sparrow, 47; song sparrow, 1. **Total,** 30 species; 861 individuals.—W. V. Balduf, S. G. Baldwin, Jacqueline Luce, W. M. Luce, S. C. Kendeigh.

215. Chicago, Ill. (Indian Boundry G.C., South Schiller Woods, Montrose Harbor; wooded golf course 40%, deciduous river woods 25%, open fields 7%, lake front and harbor 28%).—Dec. 24; 8 a.m. to 1 p.m., 3 to 5 p.m. Partly cloudy; temp. 26° to 32°; wind W, 8-12 m.p.h.; ground partly covered with light snow, harbor and lake front open. Two observers together. Total hours, 7

(on foot); total miles, 5 (on foot). Horned grebe, 1; mallard, 54; black duck, 8; green-winged teal, 1 (small size and green wing speculum noted at 15 yds. with 8x glasses—both observers); lesser scaup, 9; Am. golden-eye, 11; old-squaw, 15; Am. merganser, 120; red-breasted merganser, 480; bald eagle, 1 (imm.); sparrow hawk, 1; pheasant, 1; herring gull, 120; ring-billed gull, 1 (imm.); Bonaparte's gull, 58; mourning dove, 5; flicker, 2; downy woodpecker, 6; blue jay, 4; crow, 25; black-capped chickadee, 15; tufted titmouse, 1; white-breasted nuthatch, 1; brown creeper, 3; golden-crowned kinglet, 4; starling, 1; English sparrow, 31; cardinal, 12; slate-colored junco, 16; fox sparrow, 1 (seen in good light with 8x glasses—both observers); song sparrow, 3. **Total,** 31 species; about 1011 individuals. (Seen at the harbor Dec. 25: coot, 1.)—Pvt. Jerome J. Carroll, Joseph F. Healy.

216. Greenup, Ill. (streets 5%, pasture 10%, wooded pasture 35%, river farmland 50%).—Dec. 23. Overcast; temp. 42°; wind S, 5-10 m.p.h. One observer. Total hours, 7¾ (on foot); total miles, 6 (on foot). Cooper's hawk, 2; belted kingfisher, 1; red-bellied woodpecker, 6; downy woodpecker, 6; blue jay, 15; crow, 6; black-capped chickadee, 15; tufted titmouse, 8; Carolina wren, 7; golden-crowned kinglet, 3; starling, 6; English sparrow, 6; cardinal, 17; slate-colored junco, 20; tree sparrow, 20; fox sparrow, 1; song sparrow, 2. **Total,** 17 species; 141 individuals.—Delbert Easton.

217. Lisle (DuPage Co.), Ill. (800 acres within borders of Morton Arboretum and including groves of conifers, hardwoods, fields, and brush rows).—Dec. 29; 9:30 a.m. to 4:30 p.m. Snowy in a.m., clear in p.m.; 4 inches soft snow on ground, trees, and shrubs; temp. 35° at start, 25° at return; wind NW, 10 m.p.h. Thirty-two observers, mostly together, using 7 cars between points because of snow. Total miles, 10 (6 by each car, 4 on foot). Marsh hawk, 1; ring-necked pheasant, 1; downy woodpecker, 5; prairie horned lark, 70; blue jay, 8; crow, 150 (est.); black-capped chickadee, 11; golden-crowned kinglet, 7; cedar waxwing, 4; starling, 4; English sparrow, 20; cardinal, 12; evening grosbeak, 1; purple finch, 2; redpoll, 10; goldfinch, 2; red-eyed towhee, 1; slate-colored junco, 26; tree sparrow, 11. **Total,** 19 species; 346 individuals.—Members and friends Chicago Ornithological Society [field chairman unable to give names of participants—Ed.].

218. Michael (Calhoun Co.), Ill. (15-mile circle centered at Michael; river lowlands 80%, orchards 10%, deciduous woods 10%).—Dec. 28. Overcast; temp. 30° to 40°; wind N veering to E, 3-10 m.p.h.; ground bare. Twenty observers in 2 parties. Total hours, 14; total miles, 80 (72 by car, 8 on foot). Sharp-shinned hawk, 1; red-tailed hawk, 22; red-shouldered hawk, 2; bald eagle, 2; marsh hawk, 9; sparrow hawk, 6; bob-white, 61; killdeer, 5; Wilson's snipe, 4; ring-billed gull, 83; rock dove, 22 (living on bridge); mourning dove, 4; great horned owl, 1; belted kingfisher, 1; flicker, 4; red-bellied woodpecker, 34; red-headed woodpecker, 3; hairy woodpecker, 5; downy woodpecker, 16; blue jay, 9; crow, 75; black-capped chickadee, 20; tufted titmouse, 43; white-breasted nuthatch, 3; brown creeper, 1; Carolina wren, 9; bluebird, 6; starling, 65; English sparrow, 425; cardinal, 300 (est.); purple finch, 12; goldfinch, 80; slate-colored junco, 237; tree sparrow, 122; song sparrow, 14. **Total,** 35 species; approximately 1706 individuals.—Rev. George M. Link, Helen Zipprich, Dorothy Zipprich, Emma Carpenter, Marjorie Stelbrink, Sarah Jane Becker, Melba Roth, Anna Roth, Mrs. Wm. Stelbrink, John M. Buese, John Decker, David Dale, Mrs. Beatrice Waterbury, Neil M. Waterbury, Mrs. Corida Hanna, Mrs. Grace Miller, Francis Miller, Robert Miller, Alvin Jones, James Meno.

219. Moline, Ill. (along Rock River shore below Davis power plant, around the island, to Black Hawk State Park, through woodland over park trails and return; mature deciduous woodlands 50%, cattail marsh 5%, pastureland 15%, river shore 30%).—Dec. 27. Overcast; rain from 1 to 2:15 p.m.; temp. 36° to 55°; wind S, 1-7 m.p.h. at start, SW 13-18 m.p.h. at noon, W 8-12 m.p.h. at return; ground thawed about 1 inch at surface, slight trace of snow on north hills; all water except parts of Rock River frozen. Four observers together. Total hours, 8 (on foot); total miles, 7 (on foot). Am. merganser, 7; ducks, (sp.?), 2; bald eagle, 4 (mature); herring gull, 9; great gray owl, 2 [no substantiating details; = barred owl?—Ed.]; belted kingfisher, 2; flicker, 4; red-bellied woodpecker, 1; hairy woodpecker, 1; downy woodpecker, 5; blue jay, 5; crow, 5; black-capped chickadee, 9; tufted titmouse, 11; white-breasted nuthatch, 7; brown creeper, 4; robin, 1; starling, 2; English sparrow, 61; cardinal, 5; junco, 27; purple finch, 1; redpoll, 20; tree sparrow, 25. **Total,** 24 species; 220 individuals. — Reinhardt Bodenbender, Robert Carlson, Dick Ellis, Margaret E. Engstrom.

220. Morrison (Whiteside Co.), Ill. (timbered pasture 60%, open farmland 30%, creek 10%).—Dec. 28; 9 a.m. to 4:30 p.m. Cloudy; wind NE, 8-12 m.p.h.; no snow; temp. 30° to 28°; creek open. Two observers together. Total hours, 7½; total miles, 7 (on foot). Red-tailed hawk, 2; bob-white, 15; Hudsonian curlew, 1 (identified by long downward-curved bill and alarm note — J.C.A.) [no further substantiating details — Ed.]; screech owl, 1; great horned owl, 1; red-bellied woodpecker, 5; hairy woodpecker, 2;

downy woodpecker, 8; prairie horned lark, 4; blue jay, 8; crow, 14; black-capped chickadee, 11; tufted titmouse, 3; white-breasted nuthatch, 4; starling, 5; English sparrow, 75; cardinal, 4; goldfinch, 2; junco, 53. **Total,** 19 species; 218 individuals.—Calvin C. Remmers, John C. Aggen.

221. Murphysboro, Ill. (along G.M. & O. R.R. and Big Muddy River to mouth of Lewis Creek, adjoining farms).—Dec. 24; 8:30 a.m. to 2:30 p.m. Clear; wind light, SW; temp. 30° at start, 51° at return. Three observers together. Total hours, 6; total miles, 6. Red-shouldered hawk, 1; sparrow hawk, 1; killdeer, 1; herring gull, 10; barred owl, 1; kingfisher, 2; flicker, 2; pileated woodpecker, 1; red-bellied woodpecker, 1; red-headed woodpecker, 1; hairy woodpecker, 2; downy woodpecker, 3; blue jay, 14; crow, 16; chickadee, 65; tufted titmouse, 23; Carolina wren, 5; mockingbird, 1; robin, 2; bluebird, 2; golden-crowned kinglet, 17; starling, 8; English sparrow, 75; meadowlark, 12; cardinal, 35; goldfinch, 21; junco, 200 (est.); tree sparrow, 36; field sparrow, 1 (positively identified); white-crowned sparrow, 5 (surprising record, as species was not recorded in vicinity during the fall); fox sparrow, 1; song sparrow, 12. **Total,** 32 species; 577 individuals.—Bill Hardy, Edgar Imhoff, and Gene Pope.

222. Rockford, Ill. (Court House Square, Central Park, Searles Memorial Park, Page Conservation Park, Honnonegah Forest Preserve, Loves Park Woods, Kilbuck Forest Preserve; open fields and marshland 10%, creek and river borders 15%, deciduous woodlands 45%, bottomlands 20%, coniferous woods 10%).—Dec. 22; 7:15 a.m. to 4:15 p.m. (1 hr. out for lunch). Cloudy, lighter in p.m.; temp. 30° to 44° to 30°; wind 2 m.p.h. at start from NW, to 10-15 m.p.h. at noon from SW, to calm at close; 2 inches snow; small creeks, all ponds and marshes, and most of Rock River frozen. Two observers together. Total miles, 56 (16 on foot, 40 by car between points of observations). Cooper's hawk, 2; red-tailed hawk, 5; bob-white, 18; ring-necked pheasant, 21; rock dove, 133; mourning dove, 2; great horned owl, 1; barred owl, 2; red-bellied woodpecker, 1; hairy woodpecker, 5; downy woodpecker, 14; phoebe, 1 (seen at close range and heard—D.P.); blue jay, 8; crow, 57; black-capped chickadee, 114; white-breasted nuthatch, 12; brown creeper, 1; starling, 3111 (est. 3000 in court-house roost, 111 in area otherwise); golden-crowned kinglet, 4; English sparrow, 7123 (est. 7000 in court-house roost, 123 in area otherwise); red-wing, 1; goldfinch, 8; cardinal, 15; slate-colored junco, 115 (2 flocks); tree sparrow, 10. **Total,** 25 species; about 10,784 individuals. (Seen in area Dec. 27: herring gull, 1; Dec. 28: red-shouldered hawk, 1; Dec. 29: marsh hawk, 2.)—Don Prentice, Harold E. Bennett.

223. Springfield, Ill. (7½-mile radius from center of Springfield, including Lake Springfield and Sangamon River region).—Dec. 22; 6:45 a.m. to 5:25 p.m. Fair; temp. 30° to 40°; wind 5-15 m.p.h.; water open. Nineteen observers in 7 parties. Total miles, 59 (on foot). Pied-billed grebe, 1; great blue heron, 1; Canada goose, 1; mallard and black duck, 20,000+; pintail, 5; ring-necked duck, 2; canvas-back, 2; lesser scaup, 1; Am. golden-eye, 1; hooded merganser, 12; Am. merganser, 13; red-breasted merganser, 1; sharp-shinned hawk, 1; Cooper's hawk, 3; red-tailed hawk, 2; red-shouldered hawk, 10; Am. rough-legged hawk, 1; sparrow hawk, 6; bob-white, 34; coot, 1; ring-billed gull, 100; rock dove, 7; mourning dove, 4; barn owl, 1; screech owl, 1; horned owl, 1; barred owl, 5; belted kingfisher, 3; flicker, 11; red-bellied woodpecker, 44; red-headed woodpecker, 2; hairy woodpecker, 21; downy woodpecker, 83; prairie horned lark, 30; blue jay, 115; crow, 276; black-capped chickadee, 130; tufted titmouse, 153; white-breasted nuthatch, 57; brown creeper, 12; Carolina wren, 42; robin, 1; bluebird, 1; golden-crowned kinglet, 66; cedar waxwing, 5; starling, 5250+; English sparrow, 1000+; red-wing, 3; cardinal, 224; purple finch, 14; goldfinch, 99; slate-colored junco, 535; tree sparrow, 160; white-throated sparrow, 6; fox sparrow, 3; song sparrow, 24; Lapland longspur, 1. **Total,** 58 species; about 28,588 individuals.—Bill O'Brien, Bill Robertson, Lois Hopwood, Beatrice Hopwood, Mrs. Christine Bonney, Mrs. Lena Hardbarger, Lois Hardbarger, Edith Sutton, Russell Carter, Mrs. Lola Carter, Opel Rippey, N. E. Nilsson, Wm. Butler, James Moffitt, Don Butler, Dr. and Mrs. Richard Allyn, Herman Eifert, Mrs. Virginia Eifert (members Springfield Nature League).

224. Green Bay, Wis. (city parks, cemetery, streets, and surrounding country; city 10%, marsh 5%, high woodland 40%, swamp woodland 30%, fields 15%).—Dec. 22; 8 a.m. to 3:15 p.m. Partly cloudy; light wind, S to SW; temp. 20° to 30°; less than 1 inch snow on ground. Eight observers in 2 groups. Total hours, 14; total miles, 18. Ring-necked pheasant, 9; herring gull, 9; flicker, 1; pileated woodpecker, 1; hairy woodpecker, 3; downy woodpecker, 12; blue jay, 39; crow, 2; black-capped chickadee, 37; white-breasted nuthatch, 12; red-breasted nuthatch, 1; starling, 173; English sparrow, 800 (est.); evening grosbeak, 10; pine grosbeak, 85; redpoll, 593; goldfinch, 38; junco, 320; tree sparrow, 31; snow bunting, 17. **Total,** 20 species; about 2193 individuals.—Alice Weber, Marion Bolzenthal, Chester Krawczyk, Bernard Chartier, Edwin Cleary, Elmer Strehlow, R. P. Hussong, Clara Hussong (members Green Bay Bird Club).

225. Kenosha, Wis. (same area and route as in 1945, plus a 250-acre woods, ¼ mile south of

junction of Wis. highway 31 and highway Q; farm roads and adjoining fields 58%, farm woodlots 11%, heavy deciduous woodland 12%, lake front 15%, marshland 4%).—Dec. 22; 7:15 a.m. to 12:45 p.m., 1:45 to 5:30 p.m. Clear until 9 a.m., overcast until mid-afternoon, then clearing; temp. 20° to 31° F.; wind SW, 1-7 m.p.h.; ground partly covered with light snow, no ice on lake. Two observers together. Total hours, 9¼ (on foot); total miles, 13 (on foot). Oldsquaw, 2; Am. rough-legged hawk, 1; pheasant, 14; herring gull, 8; red-bellied woodpecker, 1; downy woodpecker, 7; blue jay, 6; crow, 27; black-capped chickadee, 3; white-breasted nuthatch, 1; starling, 40; English sparrow, 128; slate-colored junco, 2; tree sparrow, 101; song sparrow, 1. **Total,** 15 species; about 342 individuals.—Pvt. Jerome J. Carroll, Joseph F. Healy.

226. Lake Geneva, Wis. (around entire lake by car; lake front 30%, cattail marsh 10%, swampland 25%, open farmland 5%, deciduous woods 20%, tamarack swamp 10%).—Dec. 22; 7:15 a.m. to 4:30 p.m. Clear; temp. 25° at start, 35° at return; wind W, 5-10 m.p.h.; lake entirely open. Four observers together, except for 2 parties from 11:30 a.m. to 2 p.m. Total miles, 37 (28 by car, 9 on foot). Horned grebe, 2; pied-billed grebe, 2; Canada goose, 82; mallard, 51; black duck, 48; green-winged teal, 30; redhead, 2; ring-necked duck, 107; canvas-back, 159; scaup (sp.?), 170; golden-eye, 1090; buffle-head, 72; white-winged scoter, 1; ruddy duck, 10; hooded merganser, 44; Am. merganser, 375; red-breasted merganser, 12; red-tailed hawk, 5; ring-necked pheasant, 15; coot, 1250; herring gull, 250; ring-billed gull, 3; flicker, 5; hairy woodpecker, 2; downy woodpecker, 11; blue jay, 4; crow, 230; chickadee, 11; white-breasted nuthatch, 5; brown creeper, 3; robin, 1; starling, 100 (est.); English sparrow, 40; red-wing, 1; rusty blackbird, 8; cardinal, 6; purple finch, 5; common redpoll, 15; goldfinch, 4; slate-colored junco, 46; tree sparrow, 34; song sparrow, 1; snow bunting, 1. **Total,** 43 species; about 4313 individuals. Approximately 2000 additional unidentified ducks in center of lake.—Earl Anderson, Phil DuMont, C. O. Palmquist, James Stevenson.

227. Madison, Wis. (south and west shores of Lake Mendota; deciduous woodland 35%, open fields 5%, lake 35%, residential 25%).—Dec. 24; 6:30 a.m. to 2 p.m. Clear; temp. 20° to 34°; wind NW, 8 m.p.h.; trace of snow on ground; lake mostly open. Observers together. Total hours, 8½; total miles, 24 (6 on foot, 18 in car). Loon, 2; pied-billed grebe, 1; mallard, 40; black duck, 40; redhead, 3; canvas-back, 100; lesser scaup, 300; Am. golden-eye, 300; buffle-head, 15; white-winged scoter, 1; ruddy duck, 1; Am. merganser, 10; red-tailed hawk, 2; rough-legged hawk, 1; pheasant, 50; coot, 250; herring gull, 40; ring-billed gull, 1; flicker, 2; red-bellied woodpecker, 1; hairy woodpecker, 3; downy woodpecker, 5; blue jay, 30; crow, 20; black-capped chickadee, 25; Hudsonian chickadee, 1 (distinctive call, brown sides and lack of black cap noted); white-breasted nuthatch, 15; brown creeper, 3; golden-crowned kinglet, 25; starling, 10; English sparrow, 50; cardinal, 8; purple finch, 20; pine grosbeak, 2; pine siskin, 2; junco, 50; tree sparrow, 12. **Total,** 37 species; 1441 individuals. (Seen Dec. 25 in the same area: gadwall, ring-necked duck, barred owl, robin.)—Mr. and Mrs. N. R. Barger, Sam Robbins.

228. Milwaukee, Wis. (Currie, Estabrook, Greenfield, Jacobus, Juneau, Kinnickinnic, Lake, and Whitnall Parks; sections of the Lake Michigan front, Cedarburg swamp, fields and woods on northwest, west, and southwest borders of city; fields 30%, river-bottoms 15%, woods 15%, lake shore 15%, feeding stations 15%, swamp 6%, coniferous plantings 4%).—Dec. 28; dawn to dusk. Cloudy, with occasional snow flurries in a.m.; wind NE, 15-20 m.p.h.; temp. 25° at start, 28° at return; ground bare; Lake Michigan open. Eighteen observers in 7 parties and at 5 feeding stations. Total hours, 48 (39 on foot, 9 by car); total miles, 197 (37 on foot, 160 by car). Canada goose, 2; mallard, 175; black duck, 44; gadwall, 8; baldpate, 1; pintail, 2; shoveller, 25; redhead, 2; canvas-back, 46; scaup, 310; Am. golden-eye, 270; buffle-head, 14; old-squaw, 1; ruddy duck, 2; hooded merganser, 4; Am. merganser, 3760; red-breasted merganser, 87; red-tailed hawk, 3; sparrow hawk, 4; ruffed grouse, 1; European partridge, 36; pheasant, 33; coot, 1; herring gull, 405; ring-billed gull, 52; Bonaparte's gull, 27; rock dove, 79; mourning dove, 8; screech owl, 1; flicker, 14; red-headed woodpecker, 1; hairy woodpecker, 7; downy woodpecker, 25; blue jay, 13; horned lark, 11; crow, 263; chickadee, 66; white-breasted nuthatch, 10; red-breasted nuthatch, 1; brown creeper, 2; robin, 7; hermit thrush, 1 (B.J., H.M., R.S.); golden-crowned kinglet, 7; cedar waxwing, 16; northern shrike, 1; starling, 406; English sparrow, 187; meadowlark, 2; cardinal, 21; purple finch, 6; goldfinch, 6; slate-colored junco, 168; tree sparrow, 312; white-throated sparrow, 1 (at feeding tray—Mrs. A.P.B.); swamp sparrow, 1; song sparrow, 6. **Total,** 56 species; about 6964 individuals. A small part of Juneau Park lagoon is kept open throughout the winter by pumping air into the water at the bottom; this provides the puddle ducks that winter here with a constant source of open water.—Mrs. A. P. Balsom, Ray Cialdini, Elizabeth Decker, Mary Donald, Dr. Hehn, Bill Jackson, Mrs. W. F. Jackson, Barbara Larkin, Dixie Larkin, Helmuth Mueller, Kenneth Nielson, Mrs. H. J. Nunnemacher, Gordon Orians, H. L. Orians, Frank Shaffer, John Shaffer, Richard Sharp, George Treichel.

229. Seneca, Wis. (west-central Crawford County from Seneca northwest toward Mississippi River; deciduous woodlands 60%, pasture and open farmland 10%, beaver ponds and small stream 30%).—Dec. 22. Overcast in a.m., clear in p.m.; temp. 24° to 33°; wind W, 5-10 m.p.h.; ground covered with 1 inch snow; ponds frozen, stream open. One observer. Total hours, 7½ (on foot); total miles, 12 (on foot). Red-tailed hawk, 3; ruffed grouse, 1; bob-white, 13; pileated woodpecker, 1; red-bellied woodpecker, 4; hairy woodpecker, 5; downy woodpecker, 3; blue jay, 6; crow, 3; black-capped chickadee, 29; tufted titmouse, 4; white-breasted nuthatch, 13; brown creeper, 1; golden-crowned kinglet, 1; starling, 6; English sparrow, 25; cardinal, 6; goldfinch, 3; slate-colored junco, 27; tree sparrow, 53. **Total,** 20 species; 207 individuals.—Clarence Paulson.

230. Waukesha, Wis. (parks and wooded areas in city, farmland north of city, SW along Fox River valley to Saylesville and into Mukwonago marsh; open farmland 65%, city suburbs 10%, deciduous farm woodlands 15%, tamarack swamp 5%, marsh 5%).—Dec. 22; 7 a.m. to 5 p.m. Mostly cloudy; temp. 21° to 32° F.; wind SW, 8-12 m.p.h.; ground frozen and covered with 1-inch snow; Fox River mostly frozen. Seven observers together. Total hours, 10 (5¾ on foot, 4¼ in car); total miles, 51½ (8½ on foot, 43 in car). Red-tailed hawk, 4; Am. rough-legged hawk, 1; ring-necked pheasant, 2; herring gull, 8; flicker, 3; yellow-bellied sapsucker, 1 [no details—Ed.]; hairy woodpecker, 1; downy woodpecker, 7; blue jay, 11; crow, 182; black-capped chickadee, 7; white-breasted nuthatch, 5; robin, 1; starling, 81; English sparrow, 221; cardinal, 3; common redpoll, 62; goldfinch, 6; slate-colored junco, 6; tree sparrow, 157. **Total,** 20 species; about 769 individuals.—James Selle, Harlow Bielefeldt, Robert Adams, Albert G. Johnson, E. R. Cuthbert, Charles E. Nelson, Jr., S. Paul Jones.

231. Cedar Creek Bog (Anoka and Isanti Cos.), Minn. (area 3 miles wide and 7 miles long; thickly wooded deciduous and coniferous woodland except for open areas along roads).—Dec. 29; 10 a.m. to 5 p.m. Clear; temp. 5° to —5°; wind NW, 10 m.p.h.; 6 inches snow. Nine observers in 2 parties. Total hours, 12 (9 on foot, 3 by car). Buteo (sp.?), 1; golden eagle, 1; ruffed grouse, 1; pileated woodpecker, 1; hairy woodpecker, 6; downy woodpecker, 3; blue jay, 1; black-capped chickadee, 74; Hudsonian chickadee, 3; red-breasted nuthatch, 8; white-breasted nuthatch, 9; brown creeper, 1; English sparrow, 3; redpoll, 200 (est.); goldfinch, 1; red crossbill, 8; white-winged crossbill, 13; slate-colored junco, 4; tree sparrow, 27. **Total,** 19 species; about 365 individuals.—Lewis Barrett, W. J. Breckenridge, Mrs. A. D. Corniea, Byron E. Harrell, Don Jacobs, Sam McIver, Theodora Melone, Lyman Newlin, Horace Paul (Minnesota Bird Club).

232. Minneapolis, Minn. (Theodore Wirth Park, Lake Harriet, Minnesota River valley, Purgatory Creek; river-bottom 40%, city parks 30%, open farmland 20%, mixed woodland 10%).—Dec. 27; 8:30 a.m. to 2:30 p.m. Temp. 22° to 24°; wind variable; rain, sleet, and snow falling. Nine observers in 3 parties. Total hours, 13; total miles, 30 (9 on foot, 21 by car). Pied-billed grebe, 1; mallard, 1; hawk (sp.?), 1; ring-necked pheasant, 14; barred owl, 1; red-bellied woodpecker, 4; hairy woodpecker, 5; downy woodpecker, 11; prairie horned lark, 4; blue jay, 7; black-capped chickadee, 44; white-breasted nuthatch, 22; brown creeper, 6; brown thrasher, 1; golden-crowned kinglet, 3; starling, 35; English sparrow, 216; red-wing, 500 (est.); cardinal, 12; slate-colored junco, 22; tree sparrow, 1. **Total,** 21 species; about 911 individuals.—L. M. Aler, Anna J. Johnson, Mrs. G. R. Magney, Mrs. C. R. Nelson, Mrs. C. R. Proctor, Mrs. E. D. Swedenborg, Mrs. J. A. Thompson, Mrs. P. D. Tryon, Mrs. R. H. Wells.

233. Minneapolis, Minn. (Minnesota River valley from Longmeadow to Bloomington Ferry, and Lake Harriet; open farmland 40%, marshland and creek valleys 50%, city park 10%).—Dec. 21; 8 a.m. to 5 p.m. Cloudy; about 1 inch fresh snow on ground; temp. 28° to 31°. Two observers together. Total miles, 30 (8 on foot, 22 by car). Pied-billed grebe, 1; mallard, 134; black duck, 3; marsh hawk, 1; ring-necked pheasant, 10; Wilson's snipe, 2; great horned owl, 1; pileated woodpecker, 1; red-bellied woodpecker, 3; hairy woodpecker, 2; downy woodpecker, 3; blue jay, 5; black-capped chickadee, 53; white-breasted nuthatch, 18; brown creeper, 5; golden-crowned kinglet, 7; northern shrike, 1; starling, 8; English sparrow, 400 (est.); cardinal, 6; pine grosbeak, 1; redpoll, 22; goldfinch, 12; slate-colored junco, 27; tree sparrow, 87. **Total,** 25 species; about 824 individuals.—Mr. and Mrs. E. D. Swedenborg.

234. St. Paul, Minn. (Armour Packing Plant, Pine Bend vicinity, and Hastings—all on Mississippi River; river-bottom forest 50%, oak ravines 30%, cropland 20%).—Dec. 29; 9 a.m. to 4 p.m. Fair; temp. 0° to 2°; wind N, 10-15 m.p.h.; vegetation heavily coated with ice from sleet storm; 6-8 inches snow; river open at South St. Paul and Hastings. Five observers together. Total hours, 7 (6 on foot, 1 by car); total miles, 30 (10 on foot, 20 by car). Mallard, 130; black duck, 12; golden-eye, 172; Am. merganser, 85; ring-necked pheasant, 2; hairy woodpecker, 1; downy woodpecker, 2; blue jay, 4; black-capped chickadee, 11; white-breasted nuthatch, 1; brown creeper, 2; starling, 16; English sparrow, 75; cardinal, 2;

redpoll, 30; goldfinch, 21; slate-colored junco, 9; tree sparrow, 24. **Total,** 18 species; 599 individuals. A buteo was seen but not positively identified, but was most likely a red-shouldered hawk. (Seen during week: red-tailed hawk, rough-legged hawk, bald eagle, herring gull, pileated woodpecker, red-bellied woodpecker.)—William Longley, Clare L. Johnson, George A. Anderson, Dorothy Geddes, Medora Sanford (St. Paul Bird Club).

235. St. Paul, Minn. (Lake Vadnais vicinity—same area as in 1945; planted jack pine forest 40%, open farmland 30%, deciduous woods 20%, tamarack swamp 10%).—Dec. 28; 9 a.m. to 4:15 p.m. Cloudy, with snow flurries; temp. 16°; wind NW, 5-10 m.p.h.; 2 inches snow on ground; one spring open. Nine observers in 1 party. Total hours, 7¼ (on foot); total miles, 8 (on foot). Mallard, 2; goshawk, 2; ring-necked pheasant, 2; hairy woodpecker, 1; downy woodpecker, 5; blue jay, 5; crow, 1; black-capped chickadee, 85; Hudsonian chickadee, 4; white-breasted nuthatch, 3; brown creeper, 4; golden-crowned kinglet, 8; starling, 40; red-wing, 75; English sparrow, 15; pine grosbeak, 2; evening grosbeak, 5; redpoll, 55; goldfinch, 10; slate-colored junco, 1; tree sparrow, 4. **Total,** 21 species; 329 individuals.—A. B. Jameson, Shiela Jameson, Bob Keenan, L. C. Lustig, Tom Meyer, Jack Olson, Brother Pius, Robert Walsh, A. C. Rosenwinkel (St. Paul Bird Club).

236. Ames, Iowa (in morning between State forest nursery and Skunk River north to highway; brushy wooded lowland; in afternoon Homewood golf course upstream along Skunk to Camp Canweta and return on higher ground; woodland 70%, open pasture 30%).—Dec. 27; 8 a.m. to 5 p.m. Foggy drizzle, clearing in late p.m.; temp. 37° at 8 a.m., 56° at 2 p.m., dropping to 36° at 5 p.m.; ground bare, river mostly frozen. Seven observers in 1 party for 5 hours, 2 parties for 2 hours. Total hours, 9 (on foot); total miles, 16 (on foot). Red-shouldered hawk, 1; flicker, 11; red-headed woodpecker, 2; hairy woodpecker, 14; downy woodpecker, 12; blue jay, 10; crow, 2; black-capped chickadee, 12; tufted titmouse, 5; white-breasted nuthatch, 27; brown creeper, 1; cardinal, 5; English sparrow, 17; slate-colored junco, 113; tree sparrow, 19; song sparrow, 1. **Total,** 16 species; 252 individuals.—Robert Griffin, Harriet Hawk, Duane Hauser, Joan Hills, Debora Munn, Willis Yocum, R. F. Trump.

237. Atlantic, Iowa (vicinity of Sunnyside Park, west along Indian Creek, Atlantic Cemetery, southwest along Nishnabotna River in vicinity of Lewis, brush patches along road south of Atlantic; deciduous woodlands 60%, coniferous groves 10%, open fields and roadside thickets 30%).—Dec. 29; 9 a.m. to 5 p.m. Temp. —8° to —3°; wind NW to W, 15-18 m.p.h.; 2 inches drifted snow on ground. Six observers in 3 groups. Total hours, 9; total miles, 37 (7 on foot, 30 by car). Red-tailed hawk, 4; rough-legged hawk, 1; sparrow hawk, 1; ring-necked pheasant, 5; rock dove, 16; mourning dove, 5; great horned owl, 1; barred owl, 2; short-eared owl, 1; northern flicker, 12; red-bellied woodpecker, 1; hairy woodpecker, 2; downy woodpecker, 13; prairie horned lark, 4; blue jay, 10; crow, 5; black-capped chickadee, 83; white-breasted nuthatch, 8; brown creeper, 2; starling, 29; English sparrow, 51; bronzed grackle, 2; cardinal, 9; goldfinch, 4; slate-colored junco, 86; tree sparrow, 66; song sparrow, 1. **Total,** 27 species; 424 individuals. (Seen Dec. 28: golden-crowned kinglet, 2.)—Frank Berry, Don Bice, Miriam Goddard, Frank Mallette, Gene Mallette, Gene Ruhr.

238. Cedar Falls, Iowa (Goose Lake, Beaver Creek, Union Bridge of Cedar River, Snag Creek, Josh Higgins Park; river-bottoms 35%, upland forest 25%, savannahs 25%, fields 10%, marshes 5%).—Dec. 21; 8 to 11:30 a.m., 1 to 4:30 p.m. Cloudy, except for 1 hour; wind NW, 0-10 m.p.h.; temp. 28° to 32° F.; 1 inch snow on ground; unfrozen openings in rivers and creeks. Six observers, 4 in a.m., 5 in p.m. Total hours, 7 (6 on foot, 1 in car); total miles, 40 (12 on foot, 28 by car). Red-shouldered hawk, 1; bald eagle, 1; ring-necked pheasant, 3; mourning dove, 2; great horned owl, 1; barred owl, 1; northern flicker, 3; red-bellied woodpecker, 3; hairy woodpecker, 2; downy woodpecker, 10; blue jay, 24; crow, 24; black-capped chickadee, 40; tufted titmouse, 1; white-breasted nuthatch, 7; brown creeper, 6; golden-crowned kinglet, 3; starling, 1; English sparrow, 50; rusty blackbird, 1 (seen by 4 people at 25 ft. with 8x binoculars, buffy and brown head and body markings, yellow-white iris, and "cack" call noted); cardinal, 40; purple finch, 7; goldfinch, 40; slate-colored junco, 65; tree sparrow, 45; song sparrow, 2. **Total,** 26 species; 383 individuals.—Martin L. Grant, Mrs. Russell Rugg, Mrs. Oren Paine, Mr. and Mrs. Vernon Johnson, Eleanor Eifert (Cedar Falls Audubon Society).

239. Davenport, Iowa (Locust St. and Middle Rd. to Duck Creek Park, along creek to Devil's Glen; Credit Island and nearby shore area along Mississippi River and through fields to Fairmount Cemetery).—Dec. 25; 7:15 a.m. to 4 p.m. Clear; temp. 20° at start, 48° at return; variable S and W winds in late a.m. and early p.m., 15-30 m.p.h.; ground bare; creeks, ponds, and harbor mostly frozen, river open at Credit Island except near shore. One observer. Total miles, about 15 (on foot). Am. golden-eye, 32; red-tailed hawk, 1; red-shouldered hawk, 2; bald

eagle, 2; ring-billed gull, 28; kingfisher, 1; red-bellied woodpecker, 3; yellow-bellied sapsucker, 1 (seen at 15 ft.); downy woodpecker, 17; blue jay, 20; crow, 9; black-capped chickadee, 23; tufted titmouse, 11; white-breasted nuthatch, 12; brown creeper, 1; golden-crowned kinglet, 2; starling, 36; English sparrow, 420; cardinal, 15; goldfinch, 10; slate-colored junco, 79; tree sparrow, 37. **Total,** 22 species; 762 individuals. (Seen Dec. 26: hairy woodpecker, 1; barred owl, 1.)—C. F. Mueller.

240. Des Moines, Iowa (Crocker Woods, Des Moines River from Waukonsa to a mile beyond Lovington Station, Sycamore Park, Dove and Kinglet Woods along Beaver Creek, Brenton's Slough, Fisher's Lake, Pine Hill Cemetery, Charles Sing Denman Woods, Walnut Woods, impounding reservoirs recently built by Des Moines Waterworks, Audubon Society Sanctuary; open woodlands, streams, roadsides, corn fields near woodlands).—Dec. 22; 8 a.m. to 5:30 p.m. Clear; no snow; light SE wind in p.m.; temp. 23° to 41°. Warmest fall since 1932; temperatures ranging up to 69° in Dec. Eighteen observers in 6 parties. Total hours, 43½ (32½ on foot, 11 by car); total party miles, 147 (38 on foot, 109 by car). Mallard, 3022; pintail, 5; blue-winged teal, 1 [no details—Ed.]; lesser scaup, 2; Am. golden-eye, 2; red-breasted merganser, 1; sharp-shinned hawk, 1; red-tailed hawk, 7; Harlan's hawk, 1 (found dead on highway); red-shouldered hawk, 10; marsh hawk, 1; sparrow hawk, 5; bob-white, 64 (5 coveys); ring-necked pheasant, 1; coot, 2; mourning dove, 14; great horned owl, 2; barred owl, 9; long-eared owl, 5; belted kingfisher, 3; flicker, 31; red-bellied woodpecker, 13; hairy woodpecker, 13; downy woodpecker, 78; blue jay, 72; crow, 422; chickadee, 150; tufted titmouse, 37; white-breasted nuthatch, 73; red-breasted nuthatch, 1; brown creeper, 8; golden-crowned kinglet, 3; starling, 166; English sparrow, 540; meadowlark, 1; red-wing, 200 (est.); rusty blackbird, 40; bronzed grackle, 1; cardinal, 195; evening grosbeak, 1 (studied at close range—A.C.B., W.B.); purple finch, 63; goldfinch, 83; spotted towhee, 1 (rows of white spots on back and scapulars seen distinctly—Mr. and Mrs. L.H., B.F.S., Mrs. H.R.P.); slate-colored junco, 936; tree sparrow, 809; Harris's sparrow, 1; white-crowned sparrow, 1 (studied at close range with 8x binoculars—Mr. and Mrs. L.H., B.F.S., Mrs. H.R.P.); fox sparrow, 1; swamp sparrow, 1 (seen in swamp along stream; also observed in same area on Dec. 14—A.C.B., W.B.); song sparrow, 9. **Total,** 50 species and subspecies; about 7108 individuals.—Albert C. Berkowitz, Woodward Brown, Mrs. A. J. Binsfeld, Mrs. W. G. DuMont, Irene Smith, Mrs. Toni Wendelburg, Olivia McCabe, Elizabeth Peck, Mrs. T. Pettit, Mr. and Mrs. Dwight T. Smith, Bertha Miller, Mary Ellen Warters, Jack Musgrove, Mr. and Mrs. Lester Haskell, Bruce F. Stiles, Mrs. H. R. Peasley (Des Moines Audubon Society).

241. Dubuque, Iowa (Linwood and Mount Calvary cemeteries, Eagle Point Park, Mississippi River sloughs on Iowa side, Catfish Creek area from Rowan St. to Mississippi River; pine woodland 15%, deciduous woodland 35%, untilled fields 25%, river sloughs 25%).—Dec. 22; 8:30 a.m. to 12:30 p.m., 1:30 to 4:30 p.m. Overcast in a.m., clearing and sunshine in p.m.; temp. 25° to 32° F.; wind W, 5-10 m.p.h.; ground covered with 1 inch fresh snow; river open for considerable distance below dam as well as spring-fed areas in creek, all other water covered with thin layer of ice. Nine observers in 1 party. Total hours, 7; total miles, 15 (11 on foot, 4 by car). Am. golden-eye, 11; Am. merganser, 6; barred owl, 1; long-eared owl, 1; red-bellied woodpecker, 6; yellow-bellied sapsucker, 4; hairy woodpecker, 4; downy woodpecker, 7; blue jay, 18; crow, 460; black-capped chickadee, 34; tufted titmouse, 4; white-breasted nuthatch, 16; red-breasted nuthatch, 1; brown creeper, 2; golden-crowned kinglet, 16; starling, 35; English sparrow, 116; cardinal, 23; goldfinch, 3; slate-colored junco, 37; tree sparrow, 26. **Total,** 22 species; 831 individuals. (Seen in area Dec. 25: red-tailed hawk, sparrow hawk, bald eagle, screech owl, belted kingfisher, pileated woodpecker, cedar waxwing.) — Jess Crossley, George Crossley, Myrtle and James Dockal, Henry Herrmann, Ed. Heuser, Clifford Johnson, David Reed, Ival Schuster (Dubuque Audubon Club).

242. Mount Vernon, Iowa (center of town north to old golf course, south to Upper Pal, Ivanhoe south and east of Cedar River to Dark Hollow and Spring Hollow in Palisades-Kepler State Park; open farmland 50%, town 10%, park woodland 40%).—Dec. 29; 7:30 to 10:30 a.m., 2 to 6 p.m. Cloudy with light snow in a.m., clear in p.m.; wind 19-24 m.p.h.; temp. 10° to 15°; ground snow covered; Cedar River partly frozen. Two observers together. Total hours, 7; total miles, 14. Ring-necked pheasant, 2; great horned owl, 1; northern flicker, 3; red-bellied woodpecker, 3; red-headed woodpecker, 4; hairy woodpecker, 2; downy woodpecker, 16; prairie horned lark, 11; blue jay, 9; crow, 3; black-capped chickadee, 15; tufted titmouse, 4; white-breasted nuthatch, 7; winter wren, 2; starling, 40; English sparrow, 86; cardinal, 5; purple finch, 6; goldfinch, 5; slate-colored junco, 64; tree sparrow, 36. **Total,** 21 species; 324 individuals.—J. David Ennis, J. Harold Ennis.

243. Newton (Jasper Co.), Iowa (Westwood Park south along Cherry Creek for 2 miles, South Skunk River below Metz for 2 miles; open farmland 10%, timbered creek-bottom 65%,

elm-timbered river-bottom 25%).—Dec. 22; dawn to dusk. Clear until noon then light overcast; temp. 25° in a.m. changing to above freezing; wind S, less than 1 m.p.h.; 1 inch snow in a.m. mostly gone by evening; all water frozen. Two observers in 1 party. Total hours, 9½; total miles, 7 (on foot). Cooper's hawk, 1; red-tailed hawk, 5; bob-white, 2; ring-necked pheasant, 2; great horned owl, 2; barred owl, 2; flicker, 7; red-bellied woodpecker, 5; hairy woodpecker, 3; downy woodpecker, 11; blue jay, 16; crow, 16; black-capped chickadee, 19; tufted titmouse, 22; white-breasted nuthatch, 8; brown creeper, 1; starling, 4; English sparrow, 67; cardinal, 16; goldfinch, 3; slate-colored junco, 69; chipping sparrow, 4; field sparrow, 75 [no substantiating details given for either the chipping sparrows or the large number of field sparrows; = tree sparrows?—Ed.]; song sparrow, 25. **Total,** 24 species; about 385 individuals. — John Paul Moore, Konnie Yoshinaga.

244. Sioux City (Woodbury Co.), Iowa (War Eagle's Monument Park Woods, confluence area of Missouri and Big Sioux Rivers, Lower Riverside Woods, Riverview Park, Riverside Park, area along road at foot of loess hills facing westward and lying between Stone Park and Riverside, Stone Park, Plum Creek, Talbot Road, Logan Park, Grandview Park, Northside, Westside, Floyd Park Cemetery, Graceland Park Cemetery, South Ravine, Crescent Park, Floyd River valley from Springdale to Leeds and following tributary valley and branches about ½ mile, wooded area Joseph Rashimas farm, Correctionville Road at 4900 block area Brower's Lake, New Lake, Brown's Lake, and Brown's Lake Woods; hilly deciduous woodland, and pine and cedar growth 50%, river and lake country and wooded lowlands 30%, open hills 15%, town 5%).—Dec. 22; 8:30 a.m. to 5 p.m. Clear in a.m. to partially overcast and clearing in p.m.; temp. 18° to 46°; wind SE, 15-20 m.p.h.; ground mostly bare, little snow in wooded areas; all rivers open, lakes frozen, running water in 1 creek. Twenty-two observers in 12 parties. Total hours afield and point observation, 98; total miles, 142 (51 by foot, 91 by car). Am. merganser, 1; red-tailed hawk, 6; marsh hawk, 1; rock dove, 40; great horned owl, 5; yellow-shafted flicker, 18; red-shafted flicker, 3 (D.B., K.K.); red-bellied woodpecker, 1; hairy woodpecker, 30; downy woodpecker, 38; blue jay, 12; crow, 1066; black-capped chickadee, 509; white-breasted nuthatch, 45; red-breasted nuthatch, 2; brown creeper, 14; robin, 2; golden-crowned kinglet, 1; cedar waxwing, 2; starling, 227; English sparrow, 502; cardinal, 42; purple finch, 25 (flock eating ash buds—J.L.L.); pine siskin, 30; goldfinch, 152; slate-colored junco, 301; tree sparrow, 423. **Total,** 27 species; 3498 individuals. —W. W. Barrett, Mrs. Wm. Beuttler, Don Bushar, Mrs. Dwight F. Davis, Mrs. Christa Dickinson, Mrs. E. A. Emery, Carl Fritzsche, Hazel Herman, Bro. James Imhof, Bro. Russel A. Joly, Karl Kuhlmann, Mr. and Mrs. Jean L. Laffoon, Joyce Laffoon, Zell C. Lee, Mrs. Axel Madsen, Richard Raun, Dr. and Mrs. John L. Schott, Gertrude Weaver, Bertha Wellhausen, Carl Wellhausen (members and guests Sioux City Bird Club).

245. Fayette, Mo. (Old and New City Lakes and territory between the lakes, all within 6 miles of Fayette).—Dec. 24; 7 a.m. to 12:10 p.m., and 1 to 3:30 p.m. Clear to overcast by 1:30 p.m.; light wind, N; temp. 25° at start, 45° on return. Total miles, 26 (6 by car, 20 on foot). Great blue heron, 1; ring-necked duck, 1 (♂); bufflehead, 1 (♀); hooded merganser, 1 (♂); red-tailed hawk, 4; Am. rough-legged hawk, 2; bob-white, 1; rock dove, 7; horned owl, 1; belted kingfisher, 1; flicker, 3; red-bellied woodpecker, 5; hairy woodpecker, 3; downy woodpecker, 15; horned lark, 2; blue jay, 24; crow, 10; black-capped chickadee, 40; tufted titmouse, 25; mockingbird, 1; bluebird, 14; starling, 150; English sparrow, 50; meadowlark, 10; red-wing, 1; cardinal, 50; purple finch, 4 (2 ♂s, 2 ♀s); goldfinch, 16; junco, 250; tree sparrow, 135; song sparrow, 2. **Total,** 31 species; 830 individuals.—William A. Jenner.

246. Kansas City, Mo. (Swope Park; Forest Hill Cemetery; Quivira Lake and woods, Johnson County, Kan.; Wyandotte County Park and lake, Wyandotte County, Kan.; deciduous woodland 50%, open lake 25%, weedy thickets 10%, conifer groves 7%, open farmland 5%, cattail marsh 3%).—Dec. 29; 8 a.m. to 4 p.m. Partly cloudy; temp. 3° to 7° F.; wind N, 15-20 m.p.h.; light snow on ground; vapor rising from warmer water. Fifteen observers in 6 parties. Total hours, 19 (15 on foot, 4 by car); total miles, 55 (15 on foot, 40 by car). Pied-billed grebe, 1; great blue heron, 1; mallard, 900 (est.); black duck, 4; gadwall, 6; pintail, 3; redhead, 3; lesser scaup, 7; Am. golden-eye, 5; hooded merganser, 3; Am. merganser, 165 (est.); accipiter (sp.?), 1; red-tailed hawk, 3; Harlan's hawk, 1; red-shouldered hawk, 1; bob-white, 32; coot, 4; great horned owl, 1; belted kingfisher, 2; red-bellied woodpecker, 6; yellow-bellied sapsucker, 2; hairy woodpecker, 3; downy woodpecker, 29; horned lark, 1; blue jay, 15; crow, 35; black-capped chickadee, 48; tufted titmouse, 37; white-breasted nuthatch, 6; brown creeper, 3; eastern bluebird, 7; golden-crowned kinglet, 7; English sparrow, 125; eastern meadowlark, 1; cardinal, 30; pine siskin, 1; goldfinch, 63; slate-colored junco, 345; Montana junco, 1 (Hedges); tree sparrow, 120; fox sparrow, 10; song sparrow, 60. **Total,** 42 species and subspecies; about 2098 individuals. (Seen in area Dec. 22 by John Bishop,

Dr. H. M. Harford, Harold C. Hedges: sharp-shinned hawk, 1; Am. rough-legged hawk, 1; bald eagle, 1; sparrow hawk, 1; killdeer, 1; rock dove, 3; mourning dove, 2; flicker, 2; Carolina wren, 1; starling, 11; red-wing, 1; cowbird, 1.)—Henry Aarnes, J. W. Banghart, Bernice Bernsten, John Bishop, A. Dean Cole, Jr., Willard Figley, Harold C. Hedges, Mrs. Robert Isenberger, J. D. LaBrie, Mary L. Masters, J. R. Meyers, Earl T. Newton, Jr., Esther L. O'Connor, Fletcher Taylor, Hester Wilson (Burroughs Club of Kansas City).

247. Ranken (St. Louis Co.), Mo. (a tract of land cut off from Meramec River for the past 4 years by a government ordnance plant, located between Valley Park and Eureka, 6 miles long, about 4 miles wide; mostly fields and woods along creeks).—Dec. 22; 7:30 a.m. to 5 p.m. Clear; calm in a.m., slight S wind in p.m.; temp. 26° to 45°; ground frozen at start, thawing all day. Eighteen observers in 4 parties. Total hours, 21 (on foot); total miles, 28½ (on foot). Cooper's hawk, 1; red-tailed hawk, 7; marsh hawk, 1; sparrow hawk, 5; killdeer, 5; mourning dove, 3; belted kingfisher, 5; flicker, 3; pileated woodpecker, 7; red-bellied woodpecker, 30; yellow-bellied sapsucker, 4; hairy woodpecker, 6; downy woodpecker, 27; blue jay, 9; crow, 58; chickadee, 90; tufted titmouse, 90; white-breasted nuthatch, 30; brown creeper, 2; Carolina wren, 17; mockingbird, 3; robin, 10; bluebird, 33; golden-crowned kinglet, 14; cedar waxwing, 3; starling, 11; myrtle warbler, 16; English sparrow, 58; cardinal, 98; purple finch, 9; goldfinch, 36; slate-colored junco, 239; tree sparrow, 9; song sparrow, 10. **Total,** 35 species; 950 individuals.—Arthur Christ, James Earl Comfort, Mrs. H. B. Comfort, Ellen Cone, Hubert Doering, A. W. Dreyer, Hattie Ettinger, Jane Gallagher, Mrs. Susan Grumann, Ludlow Hill, James Jackson, Sterling Jones, Cecilia Lehman, J. Marshall Magner, Ken Niewoehner, Stuart O'Byrne, Frances Pickel, Jack Van Benthuysen (Webster Groves Nature Study Society).

248. Thayer, Mo. (town and surrounding area 3 miles north and east, and 4 miles west, Mammoth Spring across Arkansas border and State Fish Hatchery adjoining, plus 2 miles each of Warm Fork Creek and Spring River; open farmland 50%, town suburbs 10%, deciduous farm woodlots 20%, riverbottom 20%).—Dec. 25; dawn to dusk. Fair; temp. 32° to 45° F.; wind N, 5 m.p.h.; ground bare; water clear of ice. One observer. Total hours, 10 (8 on foot, 2 in car); total miles, 20 (10 on foot, 10 in car). Pied-billed grebe, 22; great blue heron, 1; turkey vulture, 1; Cooper's hawk, 1; Am. rough-legged hawk, 1; bob-white, 10; coot, 10; killdeer, 44; Wilson's snipe, 2; mourning dove, 47; belted kingfisher, 8; flicker, 4; pileated woodpecker, 4; red-bellied woodpecker, 12; red-headed woodpecker, 6; yellow-bellied sapsucker, 1; downy woodpecker, 8; blue jay, 10; crow, 17; Carolina chickadee, 8; tufted titmouse, 15; white-breasted nuthatch, 10; Bewick's wren, 1; Carolina wren, 5; mockingbird, 7; bluebird, 11; cedar waxwing, 1; migrant shrike, 2; starling, 20; English sparrow, 60 (est.); meadowlark, 9; cardinal, 31; purple finch, 40; goldfinch, 35; slate-colored junco, 70; field sparrow, 50 (est.); white-crowned sparrow, 2; white-throated sparrow, 2; song sparrow, 5 (seen at 40 ft. with 8x glasses). **Total,** 39 species; about 593 individuals. (Seen in area Dec. 24: sharp-shinned hawk, 1.)—C. L. Criswell.

249. Webster Groves (St. Louis Co.), Mo. (deciduous woods 65%, fields and pastures 35%).—Dec. 23. Partly cloudy; temp. 49° at start, 55° at return; wind S to SW, 12-19 m.p.h. One observer. Total hours, 7; total miles, 6½ (on foot). Sparrow hawk, 3; red-tailed hawk, 2; Cooper's hawk, 2; bob-white, 38 (3 coveys); rock dove, 27; horned owl, 1; barred owl, 1; flicker, 2; downy woodpecker, 11; hairy woodpecker, 3; red-bellied woodpecker, 9; blue jay, 28; crow, 44; Carolina chickadee, 12; tufted titmouse, 15; white-breasted nuthatch, 9; Carolina wren, 8; mockingbird, 5; bluebird, 2; starling, 43; English sparrow, 16; red-wing, 1; cardinal, 72; goldfinch, 29; purple finch, 14; junco, 247; tree sparrow, 102; fox sparrow, 2; field sparrow, 4; song sparrow, 28. **Total,** 30 species; 789 individuals. —James Earl Comfort.

250. Texarkana, Ark.-Tex. (7 miles north to Red River on Highway 71; river-bottom woods 50%, fields 30%, farmland 20%).—Dec. 29; 8 a.m. to 4:30 p.m. Clear; temp. 28° at start; wind N, 25-38 m.p.h. Two observers together. Total miles, 15 (7 by car, 8 on foot). Great blue heron, 5; mallard, 8; turkey vulture, 26; black vulture, 5; red-tailed hawk, 1; bald eagle, 1 (seen distinctly); marsh hawk, 4; sparrow hawk, 4; killdeer, 27; Wilson's snipe, 3; mourning dove, 13; kingfisher, 1; flicker, 35; red-bellied woodpecker, 3; yellow-bellied sapsucker, 3; hairy woodpecker, 3; downy woodpecker, 5; blue jay, 15; crow, 33; black-capped chickadee, 5; Bewick's wren, 2; mockingbird, 10; brown thrasher, 1; bluebird, 10; golden-crowned kinglet, 10; loggerhead shrike, 8; starling, 72; myrtle warbler, 37; English sparrow, 8; meadowlark, 57; red-wing, 265; grackle, 10; cowbird, 162; cardinal, 37; goldfinch, 17; slate-colored junco, 52; field sparrow, 2; white-throated sparrow, 13; fox sparrow, 31; song sparrow, 12. **Total,** 40 species; 1016 individuals.—Charles Gardner, Jim Cook.

251. Alexandria, La. (Veteran's Hospital 6 miles northwest along Bayou Rigolette and return by Roegully Rd.; river-bottom forest 50%,

farmland 20%, dry pine forest 15%, open fields 10%, climax hardwood forest 5%).—Dec. 28; 6 a.m. to 5 p.m. Overcast, with scattered showers; temp. 60° to 78° F.; wind SE veering to S, 8-12 m.p.h.; ground wet, large areas flooded, stage of Red River 24.6 ft. One observer. Total hours, 11 (on foot); total miles, 12 (on foot). Am. egret, 1; mallard, 2; turkey vulture, 2; black vulture, 1; red-tailed hawk, 1; sparrow hawk, 2; killdeer, 3; belted kingfisher, 3; flicker, 18; red-bellied woodpecker, 7; red-headed woodpecker, 14; yellow-bellied sapsucker, 8; hairy woodpecker, 4; downy woodpecker, 1; phoebe, 7; blue jay, 21; crow, 15; Carolina chickadee, 15; tufted titmouse, 19; brown creeper, 4; house wren, 2; Carolina wren, 10; mockingbird, 3; brown thrasher, 1; robin, 23; hermit thrush, 1; bluebird, 3; golden-crowned kinglet, 19; ruby-crowned kinglet, 31; cedar waxwing, 40; loggerhead shrike, 3; starling, 89 (living wild in river-bottoms); blue-headed vireo, 3; myrtle warbler, 8; pine warbler, 2; meadowlark, 3; red-wing, 465; purple grackle, 1500 (est.); cardinal, 36; purple finch, 55; goldfinch, 49; towhee, 5; savannah sparrow, 4; slate-colored junco, 61; chipping sparrow, 1; field sparrow, 3; white-throated sparrow, 91; swamp sparrow, 3; song sparrow, 5. **Total,** 49 species; about 2667 individuals.—R. M. Lockwood.

252. New Orleans, La. (Canal and Scott Streets to Canal Boulevard, through City Park to Lake Pontchartrain, along lake to West End, return through City Park to starting point; swamp and marsh 5%, wooded area 10%, lake front 15%, park area 70%).—Dec. 22. Clear; temp. 58° to 69°; wind NE, 5 m.p.h. Total hours, 9 (on foot and in car); total miles, 15 (5 on foot, 10 in car). Pied-billed grebe, 11; brown pelican, 6; cormorant, 5; great blue heron, 4; Am. egret, 1; lesser scaup, 2; Am. golden-eye, 3; hooded merganser, 1; black vulture, 6; red-tailed hawk, 1; red-shouldered hawk, 2; marsh hawk, 1; sparrow hawk, 2; coot, 50; killdeer, 67; Wilson's snipe, 1; herring gull, 2; ring-billed gull, 8; laughing gull, 8; Caspian tern, 1; mourning dove, 4; belted kingfisher, 1; flicker, 5; yellow-bellied sapsucker, 1; phoebe, 1; vermilion flycatcher, 3 (wintering regularly here); tree swallow, 40; blue jay, 10; crow, 4; fish crow, 72; mockingbird, 24; brown thrasher, 1; robin, 44; ruby-crowned kinglet, 1; Am. pipit, 26; cedar waxwing, 150; loggerhead shrike, 6; starling, 24; myrtle warbler, 15; English sparrow, 10; meadowlark, 4; red-wing, 2; boat-tailed grackle, 3; grackle (Florida, purple, or bronzed), 105; cardinal, 3; vesper sparrow, 1. **Total,** 46 species; approximately 742 individuals.—Earle R. Greene.

253. St. Francisville, La. (south near Mississippi River to Port Hudson and Faulkner Lake, east bank of False River; lake shore 35%, marsh and deciduous woodland 5%, hardwood upland 40%, pine forest 2%, open fields 18%).—Dec. 29; 7:30 a.m. to 5:30 p.m. Light showers in early a.m., intermittently overcast during day; wind NW, 5-25 m.p.h.; temp. 44° to 66°. Five observers substantially in 1 party. Total hours (in daylight), 11½ (6½ on foot, 5 by car); total miles, 55 (7 on foot, 48 by car). Horned grebe, 1; pied-billed grebe, 25; double-crested cormorant, 205; great blue heron, 3; Am. egret, 2; canvas-back, 120; lesser scaup, 15; ruddy duck, 5000 (est.); turkey vulture, 10; black vulture, 50; bald eagle, 3; marsh hawk, 3; sparrow hawk, 9; coot, 500 (est.); killdeer, 45; Wilson's snipe, 5; least sandpiper, 31; western sandpiper, 1; herring gull, 1; Forster's tern, 17; mourning dove, 12; belted kingfisher, 5; yellow-shafted flicker, 2; pileated woodpecker, 2; red-bellied woodpecker, 7; red-headed woodpecker, 4; yellow-bellied sapsucker, 8; downy woodpecker, 5; phoebe, 18; blue jay, 38; crow, 60; Carolina chickadee, 70; tufted titmouse, 22; house wren, 4; winter wren, 1; Bewick's wren, 7; Carolina wren, 23; mockingbird, 70; brown thrasher, 35; robin, 35; hermit thrush, 2; bluebird, 6; blue-gray gnatcatcher, 2; golden-crowned kinglet, 5; ruby-crowned kinglet, 38; Am. pipit, 54; loggerhead shrike, 30; starling, 500 (est.); white-eyed vireo, 1; blue-headed vireo, 2; orange-crowned warbler, 7; myrtle warbler, 60; pine warbler, 1; yellow-throat, 1; English sparrow, 22; eastern meadowlark, 60; red-wing, 150 (est.); rusty blackbird, 4; grackle, 850 (est.); cowbird, 2; cardinal, 57; purple finch, 8; goldfinch, 35; red-eyed towhee, 25; savannah sparrow, 1; slate-colored junco, 15; field sparrow, 100 (est.); white-throated sparrow, 150 (est.); swamp sparrow, 26; song sparrow, 2. **Total,** 70 species; about 8690 individuals.—F. J. Buchmann, Mr. and Mrs. R. W. Krebs, Laura Moore, R. B. Moore.

254. Bottineau, N.D. (same area as in 1943 and subsequent counts; mixed hardwoods 10%, pastureland 20%, grain stubble 65%, plowed land 5%).—Dec. 28; 9 a.m. to 4:30 p.m. Overcast 3 hours, clear 4½ hours; wind NW, 5 m.p.h. at start, 17 m.p.h. at close; temp. —12° to —20°; 6 inches snow cover complete; water frozen. Three observers together. Total hours, 7½ (on foot); total miles, 8 (on foot). Great horned owl, 1; yellow-shafted flicker, 2 (present since Dec. 1; feeding on Russian olives); bohemian waxwing, 53; starling, 47; English sparrow, 213; evening grosbeak, 5; redpoll, 61. **Total,** 7 species; 382 individuals.—John M. Street, James E. Street, Thomas M. Street.

255. Des Lacs National Wildlife Refuge, Kenmare, N.D. (Kenmare, 8 miles along west shore of Des Lacs Lake north of Kenmare, Tasker's Coulee area 2 miles south and ½ mile west of Kenmare, adjacent prairie; open fields 50%,

wooded lake shore road and coulees 50%).—Dec. 22; 9 a.m. to 5 p.m. Partly cloudy; ground covered with snow; wind SW, 15 m.p.h. at start, to W, 40 m.p.h. with driving dust and snow at return; temp. 24° at start, 10° at return. Five observers in 1 party. Total hours afield, 7 (2 by foot, 5 by car); total party miles, 53 (8 by foot, 45 by car). Am. rough-legged hawk, 1; sharp-tailed grouse, 13; European partridge, 15; ring-necked pheasant, 24; great horned owl, 2; snowy owl, 2; downy woodpecker, 1; Am. magpie, 23; black-capped chickadee, 24; robin, 1; starling, 3; English sparrow, 300 (est.); pine grosbeak, 8; common redpoll, 44; tree sparrow, 3; snow bunting, 530 (est.). **Total,** 16 species; about 994 individuals.—L. J. Harrison, F. A. Carpenter, Jon McKenzie, Dr. and Mrs. R. T. Gammell.

256. Lower Souris National Wildlife Refuge (McHenry Co.), Upham, N.D. (refuge headquarters east across marsh to river-bottom and sandhills near Hillman and Johnson bridges; across Johnson bridge and return on west side). —Dec. 30; 9 a.m. to 5 p.m. Clear; NW wind, about 18 m.p.h.; temp. —26° to —18°; snow average 6 inches deep. Two observers working together. Total hours afield, 7; total miles, 53 (3 on foot, 50 by car). Golden eagle, 2; sharp-tailed grouse, 22; ring-necked pheasant, 59; great horned owl, 2; snowy owl, 3; downy woodpecker, 2; magpie, 16; chickadee, 32; northern shrike, 1; English sparrow, 40; pine grosbeak, 3; common redpoll, 96; song sparrow, 1; snow bunting, 52. **Total,** 14 species; about 331 individuals.—C. J. Henry, M. C. Hammond.

257. Wilmot, S.D. (east of town to Big Stone Lake, through fields and along country roads, woods along shore for 1 mile, return by car).—Dec. 28; 10 a.m. to 4 p.m. Overcast and snowing; wind N, 20 m.p.h.; ground covered with ice and 1 inch snow; temp. —1° at start, —6° at return. One observer. Total miles, 10; total hours, 6. Ring-necked pheasant, 14; downy woodpecker, 1; horned lark, 56 (est.); crow, 35; chickadee, 9; nuthatch, 2; brown creeper, 4; English sparrow, 10; Lapland longspur, 100 (est.); snow bunting, 3. **Total,** 10 species; about 234 individuals. (Dec. 23: snowy owl; Dec. 25: flicker, 3.)—Bruce K. Harris.

258. Blue Springs, Neb. (within 2 miles of Blue Springs in a wooded section along the Big Blue River).—Dec. 23. Clear; warm; wind 1-7 m.p.h. One observer. Total hours, 7. Red-tailed hawk, 4; marsh hawk, 2; sparrow hawk, 1; pheasant, 6; great horned owl, 1; yellow-shafted flicker, 10; red-shafted flicker, 1; red-bellied woodpecker, 3; hairy woodpecker, 2; downy woodpecker, 10; crow, 15; black-capped chickadee, 32; tufted titmouse, 2; brown creeper, 2; robin, 40; bluebird, 6; starling, 6; English sparrow, 60; cardinal, 14; goldfinch, 14; slate-colored junco, 70; tree sparrow, 42; Harris's sparrow, 18; song sparrow, 4. **Total,** 24 species; 365 individuals.—Mrs. F. J. Patton.

259. Fremont, Neb. (Wild Court Park, Big Island, cemetery, Izaak Walton Park, country, roads).—Dec. 26; 8 a.m. to 3:30 p.m. Clear; mild wind, S; temp. 30° at start, 55° later in day. Total miles, 12-15 (on foot). Marsh hawk, 1; bob-white, 2; screech owl, 2; yellow-shafted flicker, 6; red-bellied woodpecker, 1; hairy woodpecker, 6; downy woodpecker, 5; blue jay, 3; crow, 100 (est.); black-capped chickadee, 15; white-breasted nuthatch, 8; brown creeper, 10; robin, 12; bluebird, 12; golden-crowned kinglet, 3; western meadowlark, 2; starling, 2; cardinal, 8; pine siskin, 3; goldfinch, 12; slate-colored junco, 300 (est.); tree sparrow, 260; Harris's sparrow, 1. **Total,** 23 species; about 774 individuals. (Flock of 18-20 evening grosbeaks wintering in Fremont.)—Mrs. Lily Ruegg Button.

260. Jefferson County, Neb. (between Little Sandy Creek and Big Sandy, including Jefferson County State Lakes; upland pastures and farmland 30%, lake 10%, deciduous woodland around creeks 60%).—Dec. 24; 8 a.m. to 4 p.m. Faint haze disappearing by noon; wind N, 10 m.p.h. at noon; temp. 30° to 40°; ground frosty; ponds frozen. One observer. Total hours, 8 (on foot); total miles, 8 (on foot). Red-tailed hawk, 2; Am. rough-legged hawk, 1; marsh hawk, 2; sparrow hawk, 2; bob-white, 5; ring-necked pheasant, 11; yellow-shafted flicker, 2; red-shafted flicker, 3; red-bellied woodpecker, 1; hairy woodpecker, 1; downy woodpecker, 1; blue jay, 5; crow, 15; chickadee, 20; starling, 7; English sparrow, 16; meadowlark, 13; cardinal, 2; goldfinch, 35; slate-colored junco, 10; chipping sparrow, 37 [no details; = tree sparrows?—Ed.]; Harris's sparrow, 3. **Total,** 22 species; 194 individuals.—Wallace Newell.

261. Kearney, Neb. (territory northwest of town along Platte River west from highway 44, Black's woods, Chal Cook's sandpit, 1733 Ranch, Cottonmill Lake—same area as in 1945 and scattered previous years; open farmland 10%, open prairie 50%, deciduous woodland 35%, evergreen woodland 5%).—Dec. 23; 10 a.m. to 5 p.m. Clear; wind S, 10 m.p.h.; temp. 58° to 43° F.; ground bare; ponds and lakes frozen, river open. Single observer. Total hours, 7 (5 on foot, 2 in car); total miles, 47 (7 on foot, 40 in car). Mallard, 13; sharp-shinned hawk, 1; Cooper's hawk, 2; marsh hawk, 2; sparrow hawk, 3; rock dove, 6; yellow-shafted flicker, 1; red-shafted flicker, 4; downy woodpecker, 2; Am. magpie, 8; crow, 70; black-capped chickadee, 30; white-breasted nuthatch, 3; brown creeper, 1; Townsend's solitaire, 1; golden-crowned kinglet, 12;

starling, 575; English sparrow, 250 (est.); western meadowlark, 1; red-wing, 1; cardinal, 3; pine siskin, 73; goldfinch, 86; slate-colored junco, 69; tree sparrow, 183. **Total,** 26 species; about 1400 individuals. Ever-increasing flock of starlings (405 last year's census), only known flock of any size in Buffalo County, restricted to one farm, although conditions not noticeably different from hundreds of others.—Joseph C. Hill.

262. Nebraska National Forest, Bessey Division (Thomas Co.), Neb. (pine woodlands 70%, meadow 20%, brush 10%).—Dec. 25; 8:30 a.m. to 4 p.m. Partly cloudy; temp. 25° to 40°; wind NW, 1-7 m.p.h.; ground bare. One observer. Total miles, 8 (on foot); total hours, 7½. Golden eagle, 1; pheasant, 3; horned owl, 1; downy woodpecker, 3; magpie, 12; crow, 13; chickadee, 16; robin, 1; Townsend's solitaire, 4; golden-crowned kinglet, 3; cardinal, 5; goldfinch, 12; junco, 93; tree sparrow, 13. **Total,** 14 species; 180 individuals.—Carl E. Smith.

263. Omaha, Neb. (Elmwood Park, Forest Lawn Cemetery, Carter Lake, Irvington, and suburban areas; deciduous woods 75%, coniferous tree plantings 15%, open fields 10%).—Dec. 22; 9 a.m. to 5 p.m. Clear; temp. 30° to 45°; wind SW, 8-12 m.p.h.; ground clear and dry; open water in creeks and part of lake. Four observers. Total hours, 8 (on foot and by car); total miles, 20. Mallard, 48; pintail, 8; Am. merganser, 1; red-shouldered hawk, 1; Am. rough-legged hawk, 1; marsh hawk, 1; sparrow hawk, 7; rock dove, 54; screech owl, 1; great horned owl, 2; flicker, 4; red-bellied woodpecker, 1; red-headed woodpecker, 1; hairy woodpecker, 4; downy woodpecker, 12; blue jay, 9; crow, 209; black-capped chickadee, 55; tufted titmouse, 1; white-breasted nuthatch, 6; red-breasted nuthatch, 1; brown creeper, 2; mockingbird, 1 (lone wintering individual under observation for the third year); eastern bluebird, 1; golden-crowned kinglet, 1; cedar waxwing, 3; starling, 96; English sparrow, 418; bronzed grackle, 1; cardinal, 18; pine siskin, 4; goldfinch, 53; slate-colored junco, 106; Oregon junco, 3; tree sparrow, 40; song sparrow, 3. **Total,** 36 species; 1177 individuals.—Dr. and Mrs. R. A. Moser, Mary Ferguson, William Ferguson.

264. Weeping Water (Cass Co.), Neb. (woodlands along creek 50%, pasture 10%, feeding station and thicket around farm buildings 40%).—Dec. 22. Clear; temp. 30° to 50°; wind less than 1 m.p.h.; ground dry. Two observers. Total hours, 10; total miles, 15. Red-tailed hawk, 2; bald eagle, 1; yellow-shafted flicker, 6; red-bellied woodpecker, 1; hairy woodpecker, 2; downy woodpecker, 2; crow, 4; black-capped chickadee, 4; brown creeper, 1; English sparrow, 150 (est.); western meadowlark, 6; cardinal, 2; slate-colored junco, 15; tree sparrow, 1. **Total,** 14 species; about 197 individuals.—Mr. and Mrs. Ray E. Norris.

265. Baldwin, Kan. (southeast to Baldwin Lake and northwest to Lone Star Lake; open farmland 20%, town suburbs 10%, deciduous farm woodlots 40%, lake shore 30%).—Dec. 27; 7:30 a.m. to 5 p.m. Cloudy in a.m., clearing in early p.m.; temp. 68° to 72°; wind SW, 25-40 m.p.h.; ground dry; lakes and streams free of ice. Ten observers. Total hours, 8; total miles, 50 (6 on foot, 44 by car). Pied-billed grebe, 1; great blue heron, 1; Cooper's hawk, 1; red-tailed hawk, 8; marsh hawk, 16; sparrow hawk, 4; bob-white, 23; screech owl, 2; great horned owl, 2; barred owl, 1; kingfisher, 2; yellow-shafted flicker, 3; red-shafted flicker, 1; red-bellied woodpecker, 1; yellow-bellied sapsucker, 2; hairy woodpecker, 2; downy woodpecker, 11; horned lark, 33; blue jay, 6; crow, 36; black-capped chickadee, 31; tufted titmouse, 18; white-breasted nuthatch, 1; winter wren, 1; mockingbird, 1; bluebird, 1; golden-crowned kinglet, 3; starling, 29; English sparrow, 48; meadowlark, 10; cardinal, 50; purple finch, 5; goldfinch, 14; spotted towhee, 1; slate-colored junco, 82; tree sparrow, 110; field sparrow, 2; Harris's sparrow, 3; song sparrow, 16; Lapland longspur, 200. **Total,** 40 species; 782 individuals. (Seen in area during census week: Carolina wren, cedar waxwing, brown creeper, migrant shrike, ruby-crowned kinglet, robin, and a female black-throated gray (?) warbler (female). This warbler was seen many times and studied under very favorable circumstances; it had a triangular black streak through eye, white curved line over the eye, black streaks on breast and sides, yellow spot on side of head, white in outer tail feathers in flight, and 2 white wing-bars.)—Rena Alexander, Frances Bailey, Clara Beach, Amelia Betts, Rev. and Mrs. George Boicourt, Mr. and Mrs. Ivan L. Boyd, Katharine Kelley, R. F. Miller (members Baldwin Bird Club).

266. Clearwater, Kan. (Lake Afton, woods along Ninnescah River, Arkansas River, Clearwater Creek, and Dry Creek, various ponds and fields; lake, ponds, and rivers 10%, deciduous woodlots 50%, marshland 3%, brushland 20%, open and weed fields 17%).—Dec. 29; dawn to dusk. Clear to partially overcast in p.m.; temp. 4° to 12°; wind NW, 13-18 m.p.h.; ponds and creeks frozen, rivers and Lake Afton partially open. Two observers together. Total hours, 11 (8 on foot, 3 by car); total miles, 73 (9 on foot, 64 by car). Mallard, 14; Am. merganser, 912 (est.); red-tailed hawk, 3; marsh hawk, 8; sparrow hawk, 4; coot, 3; kingfisher, 2; flicker, 15; red-shafted flicker, 4; red-bellied woodpecker, 5; yellow-bellied sapsucker, 1; hairy woodpecker, 3; downy woodpecker, 11; crow, 3500 (est.);

chickadee, 91; tufted titmouse, 21; brown creeper, 1; Carolina wren, 1; bluebird, 56; golden-crowned kinglet, 3; migrant shrike, 2; starling, 817 (est.); English sparrow, 64; meadowlark, 51; cardinal, 18; pine siskin, 31; goldfinch, 65; spotted towhee, 1; junco, 115; tree sparrow, 116; Harris's sparrow, 73; song sparrow, 9. **Total,** 32 species; about 6020 individuals.—Loren Keller, Harry L. Hobson.

267. Hays, Kan. (Big Creek and campus on foot, by car to Cedar Bluffs which was covered on foot; open farmland 50%, stream banks 35%, landscaped grounds 10%, open prairie 5%).—Dec. 21; 8:20 a.m. to 4 p.m. Fair; no wind; temp. 32° to 55°; no snow. Two observers in 2 parties on campus and along Big Creek; 7 observers together at Cedar Bluffs area. Total hours, 7½ (6½ on foot, 1 by car); total miles, 39 (9 on foot, 30 by car). Cooper's hawk, 1; Am. rough-legged hawk, 1; ferruginous rough-leg, 1; golden eagle, 13 (12 seen at once soaring over Cedar Bluffs "eagle roost"); marsh hawk, 6; ring-necked pheasant, 13; screech owl, 1; red-shafted flicker, 14; yellow-shafted flicker, 12; hairy woodpecker, 2; downy woodpecker, 7; Arkansas kingbird, 1 (seen on campus at close range by all observers); horned lark, 200 (est.); Am. magpie, 1 (seen from above by 3 observers on cliffs and from below by remaining observers; commonly seen here in winter associated with large flocks of crows); crow, 55 (est.); black-capped chickadee, 27; brown creeper, 2; robin, 16; eastern bluebird, 15; mountain bluebird, 2; Townsend's solitaire, 9; golden-crowned kinglet, 1 (another kinglet heard but not seen); cedar waxwing, 15; starling, 15; English sparrow, 23; western meadowlark, 20; red-wing, 3; Brewer's blackbird, 80 (est.); goldfinch, 15; towhee, 1; slate-colored junco, 56; fox sparrow, 2; tree sparrow, 70 (est.); unidentified sparrows, 20. **Total,** 33 species; about 721 individuals.—L. D. Wooster, S. V. Dalton, Bud Dalton, H. V. Truman, A. Procter, W. Madden, W. R. Eastman, Jr.

268. Wichita, Kan. (Santa Fe and Crestview Lakes, woods along Whitewater River and Whitewater Creek, Maple Grove Cemetery, Oak and Sims Park, Big Slough; lake 10%, deciduous woodlots 65%, slough and marshland 10%, brushland 10%, open fields 5%).—Dec. 23; dawn to dusk. Overcast, becoming clear in midmorning; temp. 39° to 42°; wind W veering to N, 13-18 m.p.h.; ground soft from rains; all water open. Total hours, 11 (9 on foot, 2 by car); total miles, 81 (14 on foot, 67 by car). Mallard, 1199 (est.); sharp-shinned hawk, 1; Cooper's hawk, 3; red-tailed hawk, 4; marsh hawk, 4; sparrow hawk, 3; ring-necked pheasant, 4; coot, 1; killdeer, 4; great horned owl, 3; flicker, 19; red-shafted flicker, 5; red-bellied woodpecker, 12; hairy woodpecker, 2; downy woodpecker, 18; blue jay, 1; crow, 2074 (est.); chickadee, 56; tufted titmouse, 24; brown creeper, 6; winter wren, 2; Carolina wren, 4; robin, 79; bluebird, 1; golden-crowned kinglet, 4; cedar waxwing, 9; migrant shrike, 2; starling, 253; English sparrow, 583 (est.); meadowlark, 19; blackbird (sp.?), 10; cardinal, 24; pine siskin, 7; goldfinch, 36; spotted towhee, 4; junco, 55; tree sparrow, 32; Harris's sparrow, 69; song sparrow, 11. **Total,** 39 species; about 4647 individuals. (Seen in area during count period: Canada goose, 6; horned lark, 2.) —Loren Keller, Harry L. Hobson.

269. Oklahoma City, Okla. (vicinity of Lake Overholser, starting at 39th St. bridge and working around lake; cattail marsh and lake shore 75%, deciduous woods and river bank 25%).—Dec. 28. Overcast; temp. 28° to 47°; wind N, 17-30 m.p.h. Two observers in 1 party. Total miles, 39 (31 by car, 8 on foot); total hours, 8 (1 by car, 7 on foot). Canada goose, 25; mallard, 1310 (est.); broad-winged hawk, 2 [no details given to substantiate record of species so remote from winter range—Ed.]; marsh hawk, 8; sparrow hawk, 2; bob-white, 20; coot, 11; killdeer, 8; ring-billed gull, 55; red-shafted flicker, 9; red-bellied woodpecker, 3; hairy woodpecker, 5; downy woodpecker, 11; blue jay, 6; crow, 105; black-capped chickadee, 92; tufted titmouse, 11; brown creeper, 1; Carolina wren, 2; robin, 2; eastern bluebird, 4; starling, 40; English sparrow, 120; meadowlark, 15; red-wing, 19; Brewer's blackbird, 13; cardinal, 64; goldfinch, 178; towhee, 8; pink-sided junco, 1 [no details—Ed.]; slate-colored junco, 65; tree sparrow, 2; Harris's sparrow, 10; song sparrow, 4. **Total,** 34 species; about 2231 individuals.—Dan A. Gardner, Harry E. Turner.

270. Salt Plains National Wildlife Refuge, Jet, Okla. (and vicinity, same area as in previous years, consisting of 10,600-acre lake and small ponds 40%, adjacent agricultural land 20%, pasture 10%, deciduous woods 30%).—Dec. 28; dawn to dusk. Heavy overcast; wind N, 30 m.p.h.; temp. 32° at start, 24° at noon, 19° at end; lakes and ponds open. Twelve observers in 3 parties. Total hours, 25 (17 on foot, 8 by car); total miles, 168 (21 on foot, 147 by car). Great blue heron, 14; Canada goose, 500 (est.); lesser Canada goose and Hutchins's goose, 3000 (est.); snow goose, 2; mallard, 4000 (est.); black duck, 3; gadwall, 58; baldpate, 8; pintail, 6; green-winged teal, 218; shoveller, 1; redhead, 4; canvas-back, 2; scaup, 2; golden-eye, 10; bufflehead, 10; hooded merganser, 15; Am. merganser, 3000 (est.); turkey vulture, 1 (O.W.L., B.R.); Cooper's hawk, 1; eastern and western red-tailed hawks, 13 [how were races separated?—Ed.]; Am. rough-legged hawk, 1; golden and bald eagles, 16; marsh hawk, 39; prairie falcon, 1; sparrow hawk, 6; bob-white, 24; pheasant, 2; killdeer, 26;

Wilson's snipe, 9; semipalmated (?) sandpiper, 1 (S.H.L.); herring gull, 19; ring-billed gull, 600 (est.); Franklin's gull, 1 (bird still in nuptial plumage—H.T.P., M.K.G., J.W.L., T.L.D.); great horned owl, 4; kingfisher, 2; yellow-shafted flicker, 19; red-shafted flicker, 8; red-bellied woodpecker, 7; red-headed woodpecker, 1; hairy woodpecker, 6; downy woodpecker, 30; horned lark, 8; blue jay, 1; crow, 427; chickadee, 80; tufted titmouse, 36; brown creeper, 1; winter wren, 2; Bewick's wren, 4; Carolina wren, 4; brown thrasher, 1; robin, 88; eastern bluebird, 32; golden-crowned kinglet, 2; Am. pipit, 1; cedar waxwing, 12; migrant shrike, 3; starling, 70; English sparrow, 49; eastern and western meadowlarks, 142; red-wing, 18; cowbird, 12; cardinal, 74; evening grosbeak, 4 (feeding in boxelder—S.H.L.); pine siskin, 1; goldfinch, 25; spotted towhee, 21; savannah sparrow, 3; vesper sparrow, 5 (seen by 2 parties—M.K.G. and J. W. L.; B.R. and O.W.L.); slate-colored junco, 176; tree sparrow, 563; field sparrow, 4; Harris's sparrow, 372; fox sparrow, 1; Lincoln's sparrow, 2; song sparrow, 103; longspur (sp.?), 250. **Total,** 82 species and subspecies; approximately 14,287 individuals.—John E. and Margret K. Galley, Joseph W. Letson, Orrin W. Letson, Harvey T. and Jane Phillips, Boyd Robinson, John P. Robinson (members Tulsa Audubon Society); Thomas L. Davis, Seth H. and Ann Low, Wilford W. Tullis (Fish and Wildlife Service).

271. Tulsa, Okla. (Mohawk Park and adjoining farmland, Bird Creek, City Reservoirs, Recreation Lake—same area as in previous counts; city residential area 17%, hackberry, elm, oak floodplains 30%, cultivated fields and hay meadows 36%, lakes, lagoons, and creeks 17%).—Dec. 22; 8 a.m. to 5 p.m. Clear; temp. 40° to 60°; wind SW, 14-22 m.p.h. Fourteen observers in 5 parties. Total hours, 34 (31 on foot, 3 by car); total miles, 45 (30 on foot, 15 by car). Pied-billed grebe, 5; double-crested cormorant, 1; great blue heron, 6; mallard, 1000 (est.); gadwall, 5; baldpate, 11; pintail, 10; green-winged teal, 25; shoveller, 10; redhead, 5; canvas-back, 2; lesser scaup, 2; Am. merganser, 1500 (est.); sharp-shinned hawk, 1; red-tailed hawk, 4; Krider's hawk, 1; Harlan's hawk, 1; red-shouldered hawk, 3; marsh hawk, 9; sparrow hawk, 4; bob-white, 33; ring-necked pheasant, 1; coot, 2; killdeer, 39; Wilson's snipe, 45; herring gull, 1; ring-billed gull, 100; barred owl, 4; short-eared owl, 1; belted kingfisher, 3; flicker, 20; red-bellied woodpecker, 12; red-headed woodpecker, 130; yellow-bellied sapsucker, 1; hairy woodpecker, 3; downy woodpecker, 18; prairie horned lark, 4; blue jay, 200; crow, 50; chickadee, 134; tufted titmouse, 141; white-breasted nuthatch, 9; brown creeper, 7; winter wren, 1 (G.E.T.); Carolina wren, 12; mockingbird, 6; robin, 3; eastern bluebird, 14; golden-crowned kinglet, 3; ruby-crowned kinglet, 1; Am. pipit, 1 (S.L.); migrant shrike, 4; starling, 500 (est.); English sparrow, 125; eastern meadowlark, 44; red-wing, 10,000 (est.); rusty blackbird, 500 (est.); Brewer's blackbird, 39; bronzed grackle, 106; cowbird, 36; cardinal, 102; purple finch, 13; goldfinch, 61; spotted towhee, 1; red-eyed towhee, 1; savannah sparrow, 2 (J.S.); slate-colored junco, 392; tree sparrow, 51; field sparrow, 5; Harris's sparrow, 26; white-throated sparrow, 350; fox sparrow, 100; Lincoln's parrow, 3; swamp sparrow, 6; song sparrow, 24. **Total,** 75 species and subspecies; about 16,095 individuals.—John E. Galley, Margret K. Galley, Hugh Davis, G. E. Tenney and Richard, Harvey T. Phillips, Mr. and Mrs. Harold C. Spore and Janet, Jimmy Caldwell, Bob Coulter, Donald Kiess, Seth Low, Edith R. Force (Tulsa Audubon Society).

272. Basin of Chisos Mts., Big Bend National Park, Tex. (park headquarters area, down Oak Canyon to The Window; meguey, juniper, piñon, live oak, madroña growth).—Dec. 23; 9:30 a.m. to 5 p.m. Clear; no wind; temp. 55° at start, 65° at return. Two observers. Total hours afield, 7½ (on foot); total miles, 5 (on foot). Sharp-shinned hawk, 1; band-tailed pigeon, 4; mourning dove, 5; Calif. woodpecker, 3; ladder-backed woodpecker, 1; Say's phoebe, 2; Arizona jay, 9; Am. raven, 1 (heard); black-crested titmouse, 7; verdin, 3; Bewick's wren, 2; cactus wren, 3; cañon wren, 2; rock wren, 4; mockingbird, 1; crissal thrasher, 1 (heard); ruby-crowned kinglet, 8; English sparrow, 6; pyrrhuloxia, 4; house finch, 15; pine siskin, 40; Arkansas goldfinch, 5; spotted towhee, 6; brown towhee, 7; rufous-crowned sparrow, 3 (winter plumage; malar streak less clear, no rufous in crown); Oregon junco, 3; pink-sided junco, 7; gray-headed junco, 2; unidentified juncos, 50; chipping sparrow, 10; clay-colored sparrow, 6 (buffy chest and sides, distinct median crown stripe); black-chinned sparrow, 2; Lincoln's sparrow, 1. **Total,** 32 species; 224 individuals.—Edna W. Miner, Lovie M. Whitaker.

273. El Paso, Tex. (Mesilla National Wildlife Refuge, Randel's Pool, McKelligon Canyon, Indian Springs Canyon, Memorial Park, Ascarate Park, Rio Grande levee and valley; river bosque 22%, semiarid canyon 20%, desert sandhills 22%, city park 4%, artificial lake 12%, adjoining deciduous grove 7%, river levee and valley 13%).—Dec. 22; 7:30 a.m. to 5 p.m. Clear; ground bare; water open; temp. 30° to 61°; wind NE, 10-3 m.p.h. in a.m., but SW, 6-10 m.p.h. in p.m. Nine observers. Total hours, 45 (37 on foot, 8 by car); total miles, 74 (27 on foot, 47 by car). Pied-billed grebe, 4; great blue heron, 5; mallard, 6; New Mexican duck, 12; gadwall, 20; baldpate, 120; green-winged teal, 15; shoveller, 6; canvas-

back, 3; Cooper's hawk, 1; sharp-shinned hawk, 4; red-tailed hawk, 1; marsh hawk, 1; sparrow hawk, 4; scaled quail, 15; Gambel's quail, 100+; coot, 22; killdeer, 6; Wilson's snipe, 2; least sandpiper, 2; rock dove, 15; mourning dove, 7; barn owl, 7; horned owl, 3; long-eared owl, 1; red-shafted flicker, 11; downy woodpecker, 1; ladder-backed woodpecker, 1; Say's phoebe, 1; white-necked raven, 376; long-billed marsh wren, 1 (heard); cactus wren, 3; rock wren, 5; verdin, 5; mockingbird, 3; crissal thrasher, 5; sage thrasher, 1; robin, 1; western gnatcatcher, 8; ruby-crowned kinglet, 6; Am. pipit, 3; loggerhead shrike, 21; Audubon's warbler, 6; English sparrow, 130; western meadowlark, 4; yellow-headed blackbird, 4002 (est.); red-wing, 1500 (est.); Brewer's blackbird, 2570 (est.); common cowbird, 201; pyrrhuloxia, 6; Cassin's purple finch, 17 [no details—Ed.]; house finch, 125; pine siskin, 6; common goldfinch, 20; Arkansas goldfinch, 6; spotted towhee, 1; cañon towhee, 4; lark bunting, 50; desert sparrow, 75; Oregon junco, 29; pink-sided junco, 37; red-backed junco, 2; chipping sparrow, 5; clay-colored sparrow, 4; Brewer's sparrow, 40; white-crowned sparrow, 2; Gambel's sparrow, 440; song sparrow, 11. **Total,** 68 species; about 10,127 individuals.—General G. Ralph Meyer, Mrs. Marguerite Wright, Mrs. Lena McBee, Mr. and Mrs. W. W. Wimberly, Sarah Durkee, Emily Barlow, Pfc. Nicholas M. Short, Mrs. J. Owen Allen (El Paso Bird Study Club).

274. Fort Worth, Tex. (road bordering Ridglea Golf Course on east, roadside and pastures adjacent to Clear Fork of Trinity River south of T&P railroad, Live Oak Creek at its junction with Lake Worth, Fish Hatchery near Eagle Mountain Lake; deciduous bottom woodland 55%, open pastureland 15%, ponds and lakes 25%, cattail marsh 5%).—Dec. 29; 10:30 a.m. to 5:45 p.m. Cloudy; temp. 25° to 27° F.; wind N, 20 m.p.h. Three observers in 2 parties. Total hours, 9 (3 by car, 6 on foot); total miles, 60 (51 by car, 9 on foot). Mallard, 3; gadwall, 5; baldpate, 23; ring-necked duck, 6; greater scaup, 6; ruddy duck, 1; turkey vulture, 4; red-tailed hawk, 1; red-shouldered hawk, 1; pigeon hawk, 2; coot, 5; killdeer, 21; Wilson's snipe, 35; least sandpiper, 4; semipalmated sandpiper, 10; herring gull, 48; belted kingfisher, 3; flicker, 7; red-bellied woodpecker, 8; yellow-bellied sapsucker, 1; downy woodpecker, 4; blue jay, 9; crow, 22; Carolina chickadee, 17; tufted titmouse, 10; Bewick's wren, 5; Carolina wren, 6; mockingbird, 17; robin, 5; eastern bluebird, 10; golden-crowned kinglet, 12; ruby-crowned kinglet, 6; Am. pipit, 3; cedar waxwing, 22; loggerhead shrike, 6; starling, 10,000 (est.); myrtle warbler, 3; English sparrow, 190; meadowlark, 48; red-wing, 15,000 (est.); cowbird, 4000 (est.); cardinal, 67; pine siskin, 25; eastern goldfinch, 35; spotted towhee, 6; savannah sparrow, 1; lark sparrow, 21; slate-colored junco, 458; pink-sided junco, 2; field sparrow, 50; Harris's sparrow, 322; white-crowned sparrow, 26; white-throated sparrow, 65; fox sparrow, 2; song sparrow, 134. **Total,** 55 species; about 30,803 individuals.—Mrs. Robert H. Bowman, Mr. and Mrs. Wade Smith.

275. Galveston, Tex. (2 miles along road on mainland opposite Galveston Island, and northern half of island; open sand beach, salt-water bays and estuaries, fresh-water ponds, marshy grasslands, tamarisk thickets, open pasture).—Dec. 27; 9 a.m. to 5:30 p.m. Cloudy with occasional mist early in the day, bright sunshine in p.m.; temp. 71° to 78°. Three observers in 1 party. Total party miles, 53 (48 by car, 5 on foot); total party hours, 8. Common loon, 2; pied-billed grebe, 25; brown pelican, 200 (est.); double-crested cormorant, 12; great blue heron, 6; Am. egret, 55; snowy egret, 25; reddish egret, 4; Louisiana heron, 4; black-crowned night heron, 12; yellow-crowned night heron, 3; Canada goose, 5; pintail, 600 (est.); green-winged teal, 1; Am. golden-eye, 5; red-breasted merganser, 1; red-tailed hawk, 1, marsh hawk, 17; pigeon hawk, 1; sparrow hawk, 9; Florida gallinule, 4; coot, 500 (est.); snowy plover, 3; semipalmated plover, 3; killdeer, 48; black-bellied plover, 28; Wilson's snipe, 7; long-billed curlew, 13; Hudsonian curlew, 9; western willet, 15; greater yellow-legs, 18; lesser yellow-legs, 23; least sandpiper, 15; red-backed sandpiper, 50; dowitcher, 500 (est.); semipalmated sandpiper, 1; western sandpiper, 31; sanderling, 75 (est.); herring gull, 150 (est.); ring-billed gull, 1000 (est.); laughing gull, 75; gull-billed tern, 6; Forster's tern, 15; common tern, 4; royal tern, 1000 (est.); Caspian tern, 6; rock dove, 4; mourning dove, 4; belted kingfisher, 7; flicker, 2; eastern phoebe, 2; horned lark, 2; long-billed marsh wren, 1; mockingbird, 1; brown thrasher, 1; ruby-crowned kinglet, 1; Am. pipit, 85; Sprague's pipit, 1; shrike, 9; starling, 7000 (est.); myrtle warbler, 2; yellow-throat, 1; English sparrow, 150 (est.); meadowlark, 50; red-wing, 32; boat-tailed grackle, 1000 (est.); cowbird, 1; savannah sparrow, 2; seaside sparrow, 1; swamp sparrow, 2. **Total,** 70 species; about 12,948 individuals.—J. M. Heiser, Frank Watson, G. G. Williams.

276. Harlingen, Tex. (a circle with 7½-mile radius, with center half the distance from Harlingen to Santa Maria; brush and woodland 10%, canal banks and levees 30%, open farmlands and orchards 60%).—Dec. 27; 6:30 a.m. to 7 p.m. Fair; temp. 64° to 82°; wind SE, 30 m.p.h. Seventeen observers in 6 parties. Total hours, 66; total miles, 160 (40 on foot, 120 by car). Eared grebe, 1; Mexican grebe, 10; pied-billed grebe, 16; white pelican, 5; Mexican cormorant, 553; water-turkey, 23; great blue heron, 31; Am.

egret, 46; snowy egret, 134; Louisiana heron, 14; little blue heron, 18; green heron, 1; black-crowned night heron, 13; Am. bittern, 1; white-faced glossy ibis, 12; white ibis, 2; roseate spoonbill, 2; mottled duck, 30; gadwall, 7; baldpate, 13; pintail, 32; blue-winged teal, 27; shoveller, 7; redhead, 1; lesser scaup, 15; ruddy duck, 30; turkey vulture, 92; black vulture, 137; sharp-shinned hawk, 1; Cooper's hawk, 4; red-tailed hawk, 5; red-shouldered hawk, 8; Harris's hawk, 10; marsh hawk, 49; Audubon's caracara, 9; duck hawk, 3; sparrow hawk, 96; chachalaca, 5; bob-white, 36; Florida gallinule, 13; coot, 480; Mexican jacana, 1; killdeer, 146; Wilson's snipe, 29; spotted sandpiper, 6; solitary sandpiper, 1; greater yellow-legs, 18; lesser yellow-legs, 30; least sandiper, 229; dowitcher, 285; stilt sandpiper, 1; western sandpiper, 10; ring-billed gull, 13; rock dove, 1; mourning dove, 311; ground dove, 123; Inca dove, 38; white-fronted dove, 8; groove-billed ani, 1; road-runner, 1; horned owl, 1; burrowing owl, 2; Merrill's pauraque, 6; belted kingfisher, 10; Texas kingfisher, 7; flicker, 1; golden-fronted woodpecker, 26; yellow-bellied sapsucker, 4; Texas woodpecker, 13; Couch's kingbird, 24; derby flycatcher, 27; eastern phoebe, 39; Say's phoebe, 1; vermilion flycatcher, 67; beardless flycatcher, 1; green jay, 20; black-crested titmouse, 18; verdin, 1; house wren, 29; Bewick's wren, 3; Carolina wren, 26; cactus wren, 1; long-billed marsh wren, 3; mockingbird, 106; Sennett's thrasher, 6; curve-billed thrasher, 18; hermit thrush, 1; bluebird, 3; blue-gray gnatcatcher, 11; ruby-crowned kinglet, 12; Am. pipit, 159; loggerhead shrike, 28; white-eyed vireo, 5; blue-headed vireo, 2; black and white warbler, 11; orange-crowned warbler, 14; Nashville warbler, 1; Sennett's warbler, 1; yellow warbler, 1; myrtle warbler, 62; Audubon's warbler, 2; black-throated gray warbler, 1; black-throated green warbler, 3; sycamore warbler, 4; yellow-throat, 22; Wilson's warbler, 1; English sparrow, 67; eastern meadowlark, 248; red-wing, 2775; boat-tailed grackle, 23; Audubon's oriole, 1; cowbird, 10; cardinal, 50; pyrrhuloxia, 7; blue grosbeak, 1; Sharpe's seadeater, 36; goldfinch, 40; Texas sparrow, 25; savannah sparrow, 39; grasshopper sparrow, 2; vesper sparrow, 3; lark sparrow, 127; desert sparrow, 16; clay-colored sparrow, 44; field sparrow, 7; white-crowned sparrow, 1; white-throated sparrow, 1; Lincoln's sparrow, 46. **Total,** 128 species; 7617 individuals.—Richard Bentley, Mrs. Forrest Davis, L. Irby Davis, Mrs. L. Irby Davis, Jack Galloway, C. T. Gill, Mrs. C. T. Gill, Marshall Johnston, Barry Mason, Orville Passmore, Mrs. D. C. Ring, Gilbert Rodriguez, Darrell Smith, K. P. Walker, Jr., Berthold Weller, Mary Wiley, F. D. Williams.

277. Houston, Tex. (lower portion of San Jacinto River from point near Sheldon, south to mouth of river, including areas about Lynchburg, Baytown, Strang, San Jacinto Battleground, Highland; heavy woods, marshes, cypress swamp, open fields, salt-water estuary, river-bottom, artificial reservoir).—Dec. 22; 7:30 a.m. to 6 p.m. Bright sunshine; little wind; temp. 37° to 69°. Twenty observers in 5 parties. Total party miles, 181 (157 by car, 24 on foot); total party hours, 36. Pied-billed grebe, 38; white pelican, 200 (est.); brown pelican, 1; double-crested cormorant, 25; water-turkey, 1; great blue heron, 21; Am. egret, 5; snowy egret, 6; Louisiana heron, 3; little blue heron, 2; ring-necked duck, 1; lesser scaup, 50; turkey vulture, 16; black vulture, 63; Cooper's hawk, 1; red-tailed hawk, 6; red-shouldered hawk, 6; Swainson's hawk, 1 [no details given to substantiate record; normal winter range of species in Argentina—Ed.]; Sennett's white-tailed hawk, 1; marsh hawk, 15; caracara, 2; sparrow hawk, 56; coot, 70; killdeer, 78; woodcock, 2; Wilson's snipe, 4; solitary sandpiper, 1; greater yellow-legs, 1; semipalmated sandpiper, 1; western sandpiper, 4; herring gull, 5; ring-billed gull, 157; laughing gull, 1; gull-billed tern, 1; Forster's tern, 13; common tern, 2; royal tern, 5; Caspian tern, 3; black skimmer, 250 (est.); rock dove, 6; mourning dove, 76; whip-poor-will, 1; belted kingfisher, 7; flicker, 16; pileated woodpecker, 1; red-bellied woodpecker, 13; red-headed woodpecker, 1; downy woodpecker, 2; hairy woodpecker, 1; yellow-bellied sapsucker, 15; vermilion flycatcher, 2; phoebe, 39; wood pewee, 1 [no details given to substantiate record; winter range of species normally not farther north than Costa Rica—Ed.]; tree swallow, 750 (est.); rough-winged swallow, 28 [no details given to substantiate record; very few previous winter records for this species in the U. S.—Ed.]; barn swallow, 6 [no details given to substantiate record; winter occurrence of this species north of South America accidental—Ed.]; blue jay, 17; crow, 36; Carolina chickadee, 37; tufted titmouse, 18; house wren, 11; winter wren, 2; Carolina wren, 15; short-billed marsh wren, 13; mockingbird, 90 (est.); brown thrasher, 21; robin, 11; hermit thrush, 7; veery, 2 (identification marks carefully checked) [no further substantiating details—Ed.]; eastern bluebird, 122; blue-gray gnatcatcher, 11; golden-crowned kinglet, 3; ruby-crowned kinglet 26; Am. pipit, 48; cedar waxwing, 5; loggerhead shrike, 61; starling, 2500 (est.); white-eyed vireo, 8; orange-crowned warbler, 1; myrtle warbler, 23; pine warbler, 12; oven-bird, 1; English sparrow, 72; meadowlark, 150 (est.); red-wing, 500 (est.); (only 1 ♂); Brewer's blackbird, 2000 (est.); bronzed grackle, 4; cowbird, 1200 (est.); western tanager, 1 (seen at close range, good light); cardinal, 111; purple finch, 3; eastern goldfinch, 150 (est.); towhee, 1; savannah sparrow, 4; vesper sparrow, 2; lark sparrow, 1; chipping

sparrow, 2; white-throated sparrow, 15; swamp sparrow, 1; song sparrow, 15. **Total,** 100 species; about 9416 individuals.—Marjorie Berryhill, C. E. Buehner, Alice Filkins, Dr. and Mrs. John Z. Gaston, Mary Gentry, Lillian Gorzycki, Mabel Kaiser, Logan Meitzen, Billy Millstead, Carl Pitschman, Harold Sanders, Verne Simons, Elwyn Simons, Robert A. Vines, Fred Vollmer, Carrie Wilcox, George G. Williams, Stephen Williams, Ella Wolfer (members Houston Outdoor Nature Club).

278. Tivoli, Tex. (7 miles south of Tivoli on Rockport road to Green Lake area, Tivoli west to San Antonio River, east to bluff of Hines Bay, pastures 50%, farms 10%, wooded stream banks 10%, cattail marsh and lakes 30%).—Dec. 26; 7:30 a.m. to 5:30 p.m. Overcast, with heavy ground fog until 10 a.m.; temp. about 60°; wind SE, less than 1 m.p.h. until noon, then increasing to 19-25 m.p.h. Two observers together. Total hours, 10 (4 by car, 6 on foot); total miles, 56 (40 by car, 16 on foot). White pelican, 50±; water-turkey, 32 [no comments on such a large number; = double-crested cormorants?—Ed.]; Ward's heron, 10; Am. egret, 17; snowy egret, 31; Hutchins's goose, 9; white-fronted goose, 250±; snow goose, 600±; blue goose, 10; pintail, 10; green-winged teal, 10; shoveller, 12; turkey vulture, 19; black vulture, 5; broad-winged hawk, 1 [no details—Ed.]; marsh hawk, 6; Audubon's caracara, 3; sparrow hawk, 31; sandhill crane, 14; killdeer, 8; mourning dove, 65±; barn owl, 1; belted kingfisher, 6; ladder-backed woodpecker, 1; vermilion flycatcher, 2; crow, 10; house wren, 1; mockingbird, 9; brown thrasher, 5; blue-gray gnatcatcher, 2; ruby-crowned kinglet, 2; loggerhead shrike, 12; starling, 200±; meadowlark, 26; boat-tailed grackle, 300±; red-wing, 200±; cardinal 6; grasshopper sparrow, 100± [an unusually large number; other species present?—Ed.]. **Total,** 38 species; about 2076 individuals.—Mrs. O. F. Hartman, Nancy Anne Rabke.

279. Billings, Mont. (Billings to Huntley, along Yellowstone River bottom and adjacent coulees and uplands south of river, and return through farmlands north of river).—Dec. 28; 9 a.m. to 5 p.m. Clear; 3 inches new snow; no wind; temp. —4° at start, 3° at return. Five observers, part of the time in 2 parties. Total party hours afield, 9½ (7 on foot, 2½ by car); total party miles, 54½ (9½ on foot, 45 by car). Mallard, 78; Am. golden-eye, 15; Am. merganser, 22; Am. rough-legged hawk, 1; ferruginous rough-leg, 1; bald eagle, 3; prairie falcon, 1; sparrow hawk, 2; sharp-tailed grouse, 21; ring-necked pheasant, 64; Wilson's snipe, 1; great horned owl, 2; belted kingfisher, 3; red-shafted flicker, 1; hairy woodpecker, 1; downy woodpecker, 1; Am. magpie, 47; black-capped chickadee, 17; robin, 5; mountain bluebird, 1; Townsend's solitaire, 3; bohemian waxwing, 380; cedar waxwing, 1 (flock of 45 seen on Dec. 25 and 30 on Dec. 29); English sparrow, 73; redpoll, 152; slate-colored junco, 6; Oregon junco, 14; tree sparrow, 141; song sparrow, 8. **Total,** 29 species; 1065 individuals.—J. S. Gottschalk, Wilfred D. Crabb, L. A. Peterson, G. K. Larson, R. N. Randall.

280. Fortine, Mont. (farms, river-flats, and forests in central Fortine valley, same territory as for past 18 years; mature larch-fir-pine forest 30%, second-growth fir-larch-lodgepole woods 35%, river-bottom spruce-aspen woods 25%, fields and open hills 10%).—Dec. 26; 8:30 a.m. to 5:30 p.m. Cloudy; temp. 28° to 35°; 11-18 inches old snow on ground; Fortine Creek frozen, springs and Grave Creek open; wind SE, 2-25 m.p.h. Total hours, 9 (on foot); total miles, 16. Mallard, 6; green-winged teal, 5; Am. golden-eye, 4; ruffed grouse, 9; kingfisher, 2; flicker, 1; pileated woodpecker, 1; hairy woodpecker, 1; Steller's jay, 1; magpie, 2; raven, 18; Clark's nutcracker, 26; black-capped chickadee, 19; mountain chickadee, 14; white-breasted nuthatch, 4; red-breasted nuthatch, 107; dipper, 2; Townsend's solitaire, 1; northern shrike, 1; redpoll, 16; red crossbill, 61; white-winged crossbill, 144; junco (*oreganus* subsp.), 2; tree sparrow, 1. **Total,** 24 species; 448 individuals. Unusual numbers of nuthatches and crossbills due to heavy coniferous seed crop.—Winton Weydemeyer.

281. La Barge, Wyo. (sagebrush foothills along highway 15 miles south of village; cottonwood and willow bottoms along Green River at Names Hill and at La Barge, and from La Barge Creek bridge on highway to mouth of La Barge Creek and return; village streets of La Barge; sagebrush foothills 25%, river-bottoms 50%, village streets 25%).—Dec. 27; dawn to dusk. Partly cloudy to cloudy; temp. 30° to 35°; wind SW, 1-7 m.p.h.; light snow falling at times; ground covered with 1-2 inches snow in foothills, otherwise bare; river and creeks partly frozen, but with sizable areas of open water. One observer. Total hours, 7¼ (on foot); total miles, 11 (on foot). Am. golden-eye, 4; Am. rough-legged hawk, 1; golden eagle, 1; prairie falcon, 1; rock dove, 2; horned lark, 5; Am. magpie, 36; English sparrow, 50; Hepburn's rosy finch, 150 (est.; many of the birds tending toward the gray-crowned race); tree sparrow, 2. **Total,** 10 species; about 252 individuals. — F. W. Haecker.

282. Durango, Colo. (hills 2 miles west of town, north along valley of Animas River for 6 miles, southeast along river and open uplands for 8 miles; scrub oak and brush thickets 35%,

meadows and willow thickets in river valley 30%, open upland fields 20%, hedgerows and edges of town 15%).—Dec. 21; dawn to dusk. Clear and calm in a.m., slightly overcast with 3-4 mile wind in p.m.; temp. 14° to 45°; ground bare, except for snow-patched north sides of hills and gullies; all ponds frozen, ice along edges of running streams. Elev. 6200-7500 ft. Three observers together; 6x and 8x glasses used. Total hours, 9½; total miles, 8 (on foot). Mallard, 1; red-shafted flicker, 4; downy woodpecker, 4; Steller's jay, 5; Calif. jay, 6; magpie, 35; raven, 4; crow, 60; black-capped chickadee, 8; mountain chickadee, 20; dipper, 2; robin, 7; Townsend's solitaire, 2; cedar waxwing, 1 (eating frozen apples); English sparrow, 35; evening grosbeak, 8 (eating frozen apples, weed and grass seeds); house finch, 3; slate-colored junco, 2; Oregon junco, 60; pink-sided junco, 30; song sparrow, 8. **Total,** 21 species; 305 individuals. (Seen in area Dec. 22: piñon jay, 75; western meadowlark, 5.) Brush thickets with scattered pine and spruce on slopes of hills, as well as the open farmland, were almost devoid of bird life. —Joseph, Marion, and David Borden.

283. Farmington, N.M. (along Animas River west of town to Flora Vista; cedar hills 30%, pastures and fields 20%, river shore 50%).—Dec. 25; 9 a.m. to 5 p.m. Partly cloudy in morning, clearing in afternoon; wind 8-12 m.p.h.; temp. 45° to 50°. Total miles, 12 (on foot); total hours, 8. Two observers. Great blue heron, 4; mallard, 32; baldpate, 3; green-winged teal, 40; lesser scaup, 1; Am. merganser, 9; red-tailed hawk, 2; marsh hawk, 1; scaled quail, 3; Gambel's quail, 56; ring-necked pheasant, 1; Virginia rail, 1 (seen at close range—B.E.); killdeer, 4; Wilson's snipe, 12; spotted sandpiper, 9 [no details—Ed.]; mourning dove, 98; belted kingfisher, 3; red-shafted flicker, 21; Lewis's woodpecker, 8; red-naped sapsucker, 1; hairy woodpecker, 2; downy woodpecker, 7; horned lark, 40; Steller's jay, 19; Woodhouse's jay, 38; Am. magpie, 12; piñon jay, 15; black-capped chickadee, 5; mountain chickadee, 2 (white line over eye seen—B.E.); plain titmouse, 12; white-breasted nuthatch, 1; dipper, 2; long-billed marsh wren, 4; robin, 31; western bluebird, 21; mountain bluebird, 40; ruby-crowned kinglet, 3; loggerhead shrike, 2; starling, 300; English sparrow, 13; western meadowlark, 12; red-wing, 550; Brewer's blackbird, 17; house finch, 3; pine siskin, 14; common goldfinch, 59; spotted towhee, 9; Oregon junco, 1000 (est.); pink-sided junco, 17; gray-headed junco, 23; Harris's sparrow, 1; white-crowned sparrow, 28; song sparrow, 57. **Total,** 53 species; about 2668 individuals.—Brian Evans, Charles Taulbee.

284. American Falls, Idaho (American Falls Dam; Snake River to Hawks Head Bluff, 10 miles from American Falls).—Dec. 29; 10 a.m. to 4 p.m. Cloudy; temp. 19° to 24°; slight wind; light ground cover of snow. Total miles, about 21 (20 by car, 1 on foot). One observer. Canada goose, 1700±; lesser snow goose, 1; mallard, 5300±; baldpate, 29; pintail, 168; green-winged teal, 3; shoveller, 19; redhead, 45; canvas-back, 7; Am. golden-eye, 44; buffle-head, 13; Am. merganser, 11; sharp-shinned hawk, 1; Am. rough-legged hawk, 8; golden eagle, 6; bald eagle, 3; marsh hawk, 10; prairie falcon, 1; ring-necked pheasant, 1; ring-billed gull, 43; short-eared owl, 1; red-shafted flicker, 1; horned lark, 107; Am. magpie, 37; crow, 16; loggerhead shrike, 1; starling, 15; English sparrow, 150±; Brewer's blackbird, 600±; Oregon junco, 7. **Total,** 30 species; about 8348 individuals.—Harold M. Webster.

285. Lewiston, Idaho (on foot through parks, cemetery, and along waterfronts in town, by car along Clearwater River, Lindsay Creek, and Tammany Creek, and through Orchards; same area as most other years; waterfront and creeks 50%, town 20%, open farm and range 20%, orchards 10%).—Dec. 22; dawn to dusk, with short time out near noon. Sunny morning, cloudy afternoon; temp. 30° to 44° F.; wind less than 1 m.p.h.; ground bare, with no snow visible on mountains; no ice on rivers. Four observers together 6 hours, separated 1 hour. Total hours, 10; total miles, 58 (8 on foot, 50 by car). Blue heron, 3; white pelican, 1 (our first Christmas count record); Canada goose, 34; mallard, 506+; baldpate, 14; pintail, 1; green-winged teal, 4; Am. golden-eye, 9; scaup, 3; hooded merganser, 5; Am. merganser, 3; red-tailed hawk, 1; sparrow hawk, 3; pheasant, 11; killdeer, 1; gull (sp.?), 6; mourning dove, 14; belted kingfisher, 2; red-shafted flicker, 21; pileated woodpecker, 1 (our first Christmas count record); hairy woodpecker, 2; downy woodpecker, 1; Am. magpie, 3; brown creeper, 1; robin, 1; golden-crowned kinglet, 1; northwestern shrike, 2; English sparrow, 550±; western meadowlark, 16; house finch, 210+; goldfinch, 13; pine siskin, 1; Oregon junco, 60; Gambel's sparrow, 41; song sparrow, 44. **Total,** 35 species; about 1589 individuals.—Mr. and Mrs. F. C. Gillett, Mrs. U. S. Miller, Lorena Miller.

286. Moscow Mts., Idaho (same area as since 1944; Gnat Creek, S24, T40N, R5W, to top of ridge, then west to U.S. 95, S18, T40N, R5W; 3000-4500 ft. altitude; pine, fir, and larch 100%). —Dec. 23; 8:35 a.m. to 3:40 p.m. Clear; temp. 20° to 28° F.; barometer 29.70 (sea level) falling; no snow at 3000 ft., 18 inches at 4500 ft.; no wind. One observer. Total hours, 7.8; total miles, 12 (on foot). Horned owl, 1; ruffed grouse, 1; pileated woodpecker, 1; hairy woodpecker, 1; Am. magpie, 3; black-capped chick-

adee, 27 (3 flocks of 5, 3, 19); mountain chickadee, 8 (1 in flock); chestnut-backed chickadee, 34 (6 flocks of 2, 5, 2, 6, 11, 8); red-breasted nuthatch, 9 (5 flocks of 1, 3, 1, 2, 2); pygmy nuthatch, 5 (1 flock); brown creeper, 4 (2 flocks); golden-crowned kinglet, 48 (10 flocks of 4, 3, 9, 4, 2, 4, 4, 5, 5, 8); pine siskin, 8 (1 flock). **Total,** 13 species; 150 individuals. Abundance of kinglets and chestnut-backed chickadees is noteworthy. (Found in the lowlands, 2500 ft., but not on count: Am. rough-legged hawk, red-shafted flicker, bohemian waxwing, robin, evening grosbeak, house finch, song sparrow, Am. goldfinch, Oregon junco.)—Leonard Wing.

287. Bear River Migratory Bird Refuge, Brigham, Utah (same area as in 1939 and subsequent counts; refuge headquarters west along canal road, south and east over dikes to Perry, north following highway along foothills to Brigham, west through fields and over salt flats, touching points along Bear River, and back to refuge headquarters).—Dec. 27; 9:30 a.m. to 3:30 p.m. Cloudy; rain part of the day; ground bare; wind S, 15 m.p.h. at start, diminishing to no wind by 2 p.m.; temp. 37° at start, 39° at return. Three observers in 1 party. Total hours afield, 6; total miles, 43 (42 by car, 1 on foot). Pied-billed grebe, 6; western grebe, 1; eared grebe, 1; great blue heron, 27; black-crowned night heron, 153; whistling swan, 13,000 (est.); Canada goose, 48; lesser snow goose, 2; mallard, 20,000 (est.); gadwall, 1500 (est.); baldpate, 700 (est.); pintail, 60,000 (est.); green-winged teal, 15,000 (est.); shoveller, 5300 (est.); redhead, 53; ring-necked duck, 1; canvas-back, 1000 (est.); lesser scaup, 1; Am. golden-eye, 6; buffle-head, 4; ruddy duck, 55; Am. merganser, 126; red-breasted merganser, 1; Am. rough-legged hawk, 2; golden eagle, 11; marsh hawk, 11; duck hawk, 1; ring-necked pheasant, 38; coot, 92; ring-billed gull, 140; herring gull, 6; short-eared owl, 2; red-shafted flicker, 5; horned lark, 178; Am. magpie, 14; Am. raven, 67; long-billed marsh wren, 2; Am. pipit, 5; starling, 21; English sparrow, 150; western meadowlark, 18; yellow-headed blackbird, 1 [no details—Ed.]; red-wing, 267; pale goldfinch, 15; tree sparrow, 2; white-crowned sparrow, 1 [= Gambel's sparrow?—Ed.]; song sparrow, 1. **Total,** 47 species; about 118,035 individuals.—Vanez T. Wilson, John D. Van den Akker, Leo Young.

288. Ogden, Utah (Hooper Waterfowl Run, Weber and Ogden Rivers, Burch Creek hollow and canyon, Ogden, and Warm Water Canyon; foothills, pastures, hollows, swamps, and river-bottoms).—Dec. 23; 8:30 a.m. to 5:30 p.m. Partly overcast; no wind; temp. 28° at start, 42° at finish. Four observers working in 3 parties. Total hours afield, 30 hours, 40 minutes (24 hours, 40 minutes on foot, 6 by car); total party miles, 105 (25 on foot, 80 by car). Whistling swan, 370; Canada goose, 171; mallard, 1063+; pintail, 1791+; shoveller, 11; greater scaup, 4; lesser scaup, 8; red-breasted merganser, 23; goshawk, 1; red-tailed hawk, 1; Am. rough-legged hawk, 1; marsh hawk, 18; prairie falcon, 1; sparrow hawk, 1; dusky grouse, 7; ruffed grouse, 1; Calif. quail, 76; ring-necked pheasant, 54; killdeer, 1; Wilson's snipe, 23; ring-billed gull, 88; long-eared owl, 1; short-eared owl, 4; belted kingfisher, 6; red-shafted flicker, 25; downy woodpecker, 4; Steller's jay, 3; Calif. jay, 8; Am. magpie, 238; Am. raven, 24; black-capped chickadee, 82; creeper, 12; dipper, 1; long-billed marsh wren, 22; cañon wren, 1; robin, 18; Townsend's solitaire, 1; golden-crowned kinglet, 7; ruby-crowned kinglet, 17; Am. pipit, 31; bohemian waxwing, 70; English sparrow, 138+; meadowlark, 20; red-wing, 514; house finch, 27; pine siskin, 125; goldfinch, 71; spotted towhee, 6; Oregon junco, 148+; tree sparrow, 2; song sparrow, 67. **Total,** 51 species; about 5407 individuals.—Ross Hardy, Paul Newey, Richard D. Porter, Roger L. Porter.

289. Salt Lake City, Utah (within a radius of 7½ miles of the City and County Bldg.; canyons and benchlands 40%, water courses and open country 40%, city parks and suburban areas 20%).—Dec. 22; 7:30 a.m. to 5:30 p.m. Cloudy, misty with only fair visibility; ground bare and frozen, thawing after mid-day; temp. about 30° at start, 40° at close. Twenty-five observers in 8 parties. Total miles, 137 (69 by car, 68 on foot); total party hours, 63. Pied-billed grebe, 3; great blue heron, 1; Canada goose, 5; mallard, 296; gadwall, 102; baldpate, 150; pintail, 4056; green-winged teal, 42; wood duck, 1 (Cheeseman); shoveller, 34; redhead, 6; canvas-back, 2; Am. merganser, 2; red-breasted merganser, 1; turkey vulture, 31 (1 flock—Snow); marsh hawk, 15; red-tailed hawk, 7; Am. rough-legged hawk, 11; ferruginous rough-leg, 3; golden eagle, 3; sharp-shinned hawk, 3; Cooper's hawk, 3; prairie falcon, 5; sparrow hawk, 3; ruffed grouse, 3; Calif. quail, 4; coot, 5; killdeer, 85; Wilson's snipe, 10; Calif. gull, 107; ring-billed gull, 3389; mourning dove, 52; great horned owl, 1; short-eared owl, 2; screech owl, 1; pygmy owl, 1; flicker, 124; red-naped sapsucker, 1; Lewis's woodpecker, 7; downy woodpecker, 7; kingfisher, 1; horned lark, 133; magpie, 92; Steller's jay, 23; Calif. jay, 25; raven, 23; mountain chickadee, 38; black-capped chickadee, 56; creeper, 4; water-ouzel, 4; marsh wren, 31; robin, 508; varied thrush, 1 (carefully noted on day of count by Wm. Bader, Betty Jones, J. M. Heiser, Jr., Mr. and Mrs. C. W. Lockerbie, K. R. Tanner, and J. Weidner; so far as is known this is the first recorded observation in Utah; it was observed on 3 consecutive Sundays); solitaire, 4; golden-crowned kinglet, 1; pipit, 4; bohemian

waxwing, 43; cedar waxwing, 4; northern shrike, 1; starling, 243; English sparrow, 3682; redwing, 340; Brewer's blackbird, 5038; meadowlark, 104; evening grosbeak, 11; house finch, 1094; redpoll, 1 (T. Evans); siskin, 111; willow goldfinch, 76; spotted towhee, 47; slate-colored junco, 9; Oregon junco, 309; pink-sided junco, 39; gray-headed junco, 1; tree sparrow, 9; Harris's sparrow, 1 (Snow); Gambel's sparrow, 190; song sparrow, 203. **Total,** 78 species; 21,088 individuals.—Wm. Bader, M. R. Cheeseman, J. Donald Daynes, Dick Daynes, Thayer Evans, Fred Fairbanks, J. M. Heiser, Jr. (Houston, Tex.), Mr. and Mrs. Larry Hill, Mrs. Betty Jones, Mr. Judd, Mr. and Mrs. C. W. Lockerbie, Marion W. Nelson, Alan Neilson, Robert Pendleton, Galen Ross, Rex B. Snow, Grant Steinblick, Kenneth R. Tanner, Gordon Taylor, Bert Webb, E. R. Wilson, David Wilson, Prof. A. M. Woodbury.

290. Havasu Lake National Wildlife Refuge (Mohave Co.), Ariz. (Arizona portion of refuge above Topock only; river-bottom mesquite-arrowweed association 40%, flooded dead brush areas 30%, cattails and open water 20%, wet willow areas 10%).—Dec. 22; 6 a.m. to 5:15 p.m. (P.S.T.). Mostly cloudy; temp. 45° to 65°; wind N, 1-2 m.p.h. Total hours, 11¼ (8¼ on foot, 2 in outboard motorboat, 1 by car); total miles, 24 (6 on foot, 8 by motorboat, 10 by car). Western grebe, 1; pied-billed grebe, 1; double-crested cormorant, 41; great blue heron, 15; Am. egret, 8; Canada goose, 172; lesser snow goose, 11; mallard, 44; gadwall, 384; pintail, 7; green-winged teal, 30; shoveller, 15; Am. merganser, 1; red-tailed hawk, 4; Harris's hawk, 7; marsh hawk, 7; sparrow hawk, 1; Gambel's quail, 18; sora, 1; coot, 121; killdeer, 6; spotted sandpiper, 2; greater yellow-legs, 1; road-runner, 1; horned owl, 2; belted kingfisher, 3; red-shafted flicker, 14; Gila woodpecker, 4; ladder-backed woodpecker, 9; black phoebe, 7; vermilion flycatcher, 5; tree swallow, 280; Am. raven, 2; verdin, 3; house wren, 1; Bewick's wren, 5; long-billed marsh wren, 7; cañon wren, 1; crissal thrasher, 9; gnatcatcher (sp.?), 12; ruby-crowned kinglet, 14; Am. pipit, 5; phainopepla, 8; loggerhead shrike, 7; orange-crowned warbler, 3; Audubon's warbler, 42; yellow-throat, 1; western meadowlark, 5; red-wing, 1; Brewer's blackbird, 8; spotted towhee, 1; Abert's towhee, 9; savannah sparrow, 3; sage sparrow, 7; Gambel's sparrow, 18; song sparrow, 20. **Total,** 56 species; 1415 individuals.—Gale Monson.

291. Imperial National Wildlife Refuge, Ariz. (area 17 miles north of Yuma; vicinity of Imperial Dam north to Castle Dome Landing and southeast along shores of Lake Laguna; lake, marsh, desert, and flooded brushland types).—Dec. 28; 7:15 a.m. to 4:15 p.m. Clear; wind NW, moderate; temp. 42° to 57°. Two observers in 1 party. Total hours afield, 9; total miles, 23 (3 on foot, 20 by car). Eared grebe, 2; Mexican grebe, 2 (A.F.H.); pied-billed grebe, 4; white pelican, 8; double-crested cormorant, 72; great blue heron, 5; Am. egret, 10; Brewster's snowy egret, 20; black-crowned night heron, 7; Canada goose, 175; lesser Canada goose, 25; lesser snow goose, 400 (est.); mallard, 3; gadwall, 2; pintail, 30; green-winged teal, 1; shoveller, 41; redhead, 7; ring-necked duck, 1; canvasback, 1; lesser scaup, 20; buffle-head, 1; ruddy duck, 29; turkey vulture, 3; red-tailed hawk, 2; Harris's hawk, 1; marsh hawk, 2; sparrow hawk, 2; Gambel's quail, 40; sora, 1; Florida gallinule, 2; coot, 483; killdeer, 2; Wilson's snipe, 1; spotted sandpiper, 3; mourning dove, 4; road-runner, 3; belted kingfisher, 1; red-shafted flicker, 3; Gila woodpecker, 3; ladder-backed woodpecker, 1; black phoebe, 5; Say's phoebe, 3; vermilion flycatcher, 1; violet-green swallow, 20; tree swallow, 50; rough-winged swallow, 1; verdin, 1; long-billed marsh wren, 1; mockingbird, 1; crissal thrasher, 1; western gnatcatcher, 3; phainopepla, 1; ruby-crowned kinglet, 2; loggerhead shrike, 4; Audubon's warbler, 13; English sparrow, 3; western meadowlark, 15; house finch, 1; spotted towhee, 2; chipping sparrow, 3; Gambel's sparrow, 11; song sparrow, 2. **Total,** 63 species and subspecies; about 1567 individuals.—Arthur F. and Audrey G. Halloran.

292. Santa Catalina Mts., Ariz. (15-mile circle on south slope centering near Sabino Canyon; pine and fir forests 12%, chaparral and Upper Sonoran Zone hillsides 12%, live oak woodland 16%, foothill canyons 12%, desert foothills 20%, ranches, farmlands, and ponds 20% cottonwood-willow association 8%).—Dec. 22; 7:15 a.m. to 8:30 p.m. Fair to partly cloudy; wind variable, slight; temp. at base 47° to 79°, lower at high altitudes; a few patches of snow in shade at top of mountains. Eighteen observers in 9 parties. Total party hours, 66½; total miles, 275 (33½ on foot, 242 by car). Pied-billed grebe, 2; sharp-shinned hawk, 7; Cooper's hawk, 5; red-tailed hawk, 13; golden eagle, 2; marsh hawk, 2; sparrow hawk, 14; Gambel's quail, 75+; coot, 12; killdeer, 18; Wilson's snipe, 2; mourning dove, 159; ground dove, 2; Inca dove, 23; road-runner, 5; horned owl, 2; belted kingfisher, 1; red-shafted flicker, 98; gilded flicker, 17; Gila woodpecker, 62; Calif. woodpecker, 18+; red-naped sapsucker, 2; ladder-backed woodpecker, 10; Arizona woodpecker, 4; black phoebe, 15; Say's phoebe, 8; vermilion flycatcher, 2; Calif. jay, 24 (widespread, even in lowlands); Arizona jay, 63; Am. raven, 7; mountain chickadee, 4; bridled titmouse, 27; verdin, 45; bush-tit, 10; white-breasted nuthatch, 12+; pygmy nuthatch, 11; creeper, 1; house wren, 9; Bewick's wren, 3; cactus wren, 42; long-billed marsh wren, 1; cañon wren, 9; rock wren, 22; mockingbird, 6;

Bendire's thrasher, 1; curve-billed thrasher, 35; crissal thrasher, 7; robin, 3; hermit thrush, 3; western bluebird, 8; mountain bluebird, 1; Townsend's solitaire, 1; blue-gray gnatcatcher, 9; plumbeous gnatcatcher, 3 (+3 unidentified gnatcatchers); ruby-crowned kinglet, 59+; Am. pipit, 15; phainopepla, 22; loggerhead shrike, 8; Hutton's vireo, 3; orange-crowned warbler, 1; Audubon's warbler, 39; black-throated gray warbler, 7 (reported by 4 parties); yellow-throat, 1; English sparrow, 73; western meadowlark, 5 (+108 unidentified meadowlarks); red-wing, 881; Brewer's blackbird, 2; dwarf cowbird, 3; cardinal, 28; pyrrhuloxia, 14; house finch, 230+; pine siskin, 4; Arkansas goldfinch, 10; green-tailed towhee, 8; spotted towhee, 57+ (widespread, even in lowland brush; at least 2 races; migrant specimens taken in lower mountains); brown towhee, 17; Abert's towhee, 16; lark bunting, 40; savannah sparrow, 3; vesper sparrow, 15; lark sparrow, 124; rufous-crowned sparrow, 8; desert sparrow, 18; slate-colored junco, 1 (L.L.H.); Cassiar junco, 1 (L.L.H.) [no further details; collected?—Ed.]; Shufeldt's junco, 102; "Montana" junco (of A.O.U. "Check List"), 11 [no details; sight identification of different races of Oregon junco not considered reliable—Ed.]; pink-sided junco, 32; gray-headed junco, 45; Arizona junco, 11; chipping sparrow, 587+; Brewer's sparrow, 3; black-chinned sparrow, 7+; white-crowned sparrow, 3; Gambel's sparrow, 362; Lincoln's sparrow, 15+; song sparrow, 12. **Total,** 98 species and subspecies; about 3961 individuals. (A poor year for this area; rushes of Binghamton Pond destroyed, and mouth of Sabino Canyon overrun by cats; transportation difficulties hindered coverage of pine and fir forests.)—A. H. Anderson, R. E. Collins, R. A. Darrow, Mr. and Mrs. W. X. Foerster, Mrs. Marguerite Gooder, L. L. Hargrave, E. C. Jacot, George Jones, Mrs. Lena Marvin, Mrs. Mary Jane Nichols, Ivan Peters, A. R. Phillips, Warren Pulich, Mrs. Edith W. Steele, R. B. Streets, Tim Townsend, C. T. Vorhies (Tucson Natural History Society Bird Club).

293. Tucson, Ariz. (Santa Cruz River valley and vicinity; farmlands and stockyards 30%, mesquite brush 21%, cottonwood association 15%, river, ponds, and ditches 9%, city streets 9%, desert washes 6%, cholla cactus 6%, creosote desert 4%).—Dec. 29; 7:05 a.m. to 5:30 p.m. Fair to partly cloudy; wind SE, slight and intermittent; temp. 34° to 60°. Six observers in 3 parties. Total party hours, 24¼; total miles, 111 (12 on foot, 99 by car). Green-winged teal, 2; sharp-shinned hawk, 6; Cooper's hawk, 3; red-tailed hawk, 11; marsh hawk, 5; prairie falcon, 3; sparrow hawk, 20; Gambel's quail, 174+; killdeer, 67+; Wilson's snipe, 14; least sandpiper, 2; mourning dove, 262; ground dove, 13; Inca dove, 48; road-runner, 3; screech owl, 1; horned owl, 1; long-eared owl, 12± (1 flock); red-shafted flicker, 56; gilded flicker, 5+; Gila woodpecker, 35; red-naped sapsucker, 1; ladder-backed woodpecker, 9; black phoebe, 18; Say's phoebe, 22; vermilion flycatcher, 6; horned lark, 12; Am. raven, 5; verdin, 36; house wren, 14; Bewick's wren, 2; cactus wren, 31+; long-billed marsh wren, 4; cañon wren, 1; rock wren, 1; mockingbird, 4; Bendire's thrasher, 7; curve-billed thrasher, 31; crissal thrasher, 21; robin, 2; hermit thrush, 2; blue-gray gnatcatcher, 5; plumbeous gnatcatcher, 2; golden-crowned kinglet, 1 (collected); ruby-crowned kinglet, 43; Am. pipit, 12; phainopepla, 3; loggerhead shrike, 37; plumbeous vireo, 2; Cassin's vireo, 2; orange-crowned warbler, 2 (collected; different races); Audubon's warbler, 54+; black-throated gray warbler, 3±; yellow-throat, 1; English sparrow, 161; eastern meadowlark, 75 (1 flock—A.J.F.); western meadowlark, 169 (+504 unidentified meadowlarks); red-wing, 802; Brewer's blackbird, 53; boat-tailed grackle, 8; dwarf cowbird, 201; cardinal, 25; pyrrhuloxia, 53+; house finch, 267+; Arkansas goldfinch, 1; green-tailed towhee, 10; spotted towhee, 6; brown towhee, 16; Abert's towhee, 35; lark bunting, 35; savannah sparrow, 75; vesper sparrow, 8; lark sparrow, 151; rufous-winged sparrow, 4; desert sparrow, 33+; chipping sparrow, 30; Brewer's sparrow, 36; Gambel's sparrow, 355; Lincoln's sparrow, 4; song sparrow, 82. **Total,** 81 species and subspecies; about 4338 individuals. (A poor year for this area; Midvale Pond entirely dry, and City Farms overgrown with tall cockleburs; the best cottonwood groves at ford at Sahuarita Butte entirely destroyed last summer, even to the Baccharis undergrowth, and the pond and irrigation ditches there replaced by pipes.)—Mrs. Hortense B. Donnan, Mr. and Mrs. W. X. Foerster, Gale Monson, Ivan Peters, A. R. Phillips.

294. Reno, Nev. (Nevada Game Farm south and west to Galena Creek, north and west to old Verdi Road; same area as in 1942 and subsequent counts; town 10%, marsh and open water 30%, ranchland 35%, coniferous timber 5%, desert 20%).—Dec. 29; 6:30 a.m. to 1 p.m., 2 to 5 p.m. Clear at start, gradually more cloudy all day; snowing at Galena Creek in p.m.; wind NW, 1 m.p.h. at start to 20 m.p.h. in p.m.; temp. 22° at start; ground bare, except at Galena Creek; water frozen, except 5% in small lakes. Two observers together. Total hours, 9½ (4 on foot); total miles, 60 (4 on foot). Great blue heron, 5; Canada goose, 50; mallard, 950; baldpate, 660; green-winged teal, 29; shoveller, 3; redhead, 16; lesser scaup, 10; ruddy duck, 14; rough-legged hawk, 1; red-tailed hawk, 1; marsh hawk, 4; sparrow hawk, 3; Calif. quail, 25; ring-necked pheasant, 9; coot, 186; killdeer, 13; Wilson's snipe, 1; belted kingfisher, 1; red-shafted

flicker, 17; downy woodpecker, 1; Steller's jay, 2; Am. magpie, 8; dipper, 1; Am. pipit, 7; loggerhead shrike, 1; English sparrow, 31; western meadowlark, 24; red-wing, 2; Brewer's blackbird, 500 (est.); house finch, 5; spotted towhee, 1; Oregon junco, 34; Gambel's sparrow, 8; song sparrow, 6. **Total,** 35 species; about 2629 individuals. Zero temperature day before census; snow at Galena Creek eliminated several "sure" species such as creeper, mountain chickadee, white-breasted and pygmy nuthatches; frozen marshes probably eliminated others such as marsh wren.—Mary Egner, Dryden Kuser.

295. Medina, Wash. (Medina and following lake shore road to Bellevue, Newport Dock, east side of Mercer Slough to Midlakes, woodland road to Yarrow Bay, Yarrow Point, Huntspoint, Fairweather Bay, and Evergreen Point back to starting point).—Dec. 29; 8 a.m. to 3:30 p.m. Clear; slight N wind; temp. 26° at start, 38° at return. Five observers. Total miles, 31 (28 by car, 3 on foot). Western grebe, 3; eared grebe, 6; pied-billed grebe, 3; great blue heron, 7; mallard, 62; baldpate, 700 (est.); green-winged teal, 3; redhead, 2; canvas-back, 8; lesser scaup, 19; ring-necked duck, 2; buffle-head, 9; ruddy duck, 2; Am. golden-eye, 3; Am. merganser, 5; red-breasted merganser, 3; hooded merganser, 7; Cooper's hawk, 1; sparrow hawk, 2; Calif. quail, 15; ring-necked pheasant, 8; coot, 1040; killdeer, 12; Wilson's snipe, 3; glaucous-winged gull, 38; Calif. gull, 2; ring-billed gull, 2; band-tailed pigeon, 12 [no details furnished; regarded as a permanent resident by W.H., but virtually unreported in winter elsewhere in State—Ed.]; short-eared owl, 2; red-shafted flicker, 9; crow, 10; black-capped chickadee, 14; bush-tit, 30; Bewick's wren, 4; winter wren, 4; long-billed marsh wren, 2; varied thrush, 38; robin, 88; golden-crowned kinglet, 14; Sitka kinglet, 2; English sparrow, 18; evening grosbeak, 35; Calif. purple finch, 15; goldfinch, 8; pine siskin, 10; spotted towhee, 21; slate-colored junco, 1; Oregon junco, 286; Puget Sound sparrow, 7; golden-crowned sparrow, 2; fox sparrow, 3; song sparrow, 86. **Total,** 52 species; about 2688 individuals.—W. Hagenstein, Joe Tinker, John E. Frost, Neal Twelves, Bob Millette.

296. Spokane, Wash. (city parks and cemeteries, residential districts, area along Spokane River, and Whitworth College campus).—Dec. 22; 8:30 a.m. to 3:30 p.m. Mostly cloudy; temp. 32° to 38°; very slight breeze; ground bare. Twenty-two observers. Total miles, 71 (44 by car, 27 on foot). Great blue heron, 3; mallard, 593; pintail, 1; ring-necked duck, 10; Am. golden-eye, 134; hooded merganser, 2; Am. merganser, 10; red-tailed hawk, 2; Hungarian partridge, 10; bob-white, 12; Calif. quail, 76; ring-necked pheasant, 18; gull, 11 [species?—Ed.]; rock dove, 3000±; horned owl, 1; kingfisher, 1; flicker, 39; downy woodpecker, 4; magpie, 35; chickadee, 76; red-breasted nuthatch, 8; pygmy nuthatch, 87; winter wren, 1; robin, 255; western bluebird, 4; Towsend's solitaire, 1; golden-crowned kinglet, 42; bohemian waxwing, 421 (400 est. in 1 flock); English sparrow, 269; evening grosbeak, 58; redpoll, 16; pine siskin, 26; goldfinch, 12; crossbill, 43; junco, 377; song sparrow, 15. **Total,** 36 species; about 5673 individuals.—Wm. B. Wright, Mrs. Cora Roberts, Mrs. Marie Downs, Alda Taylor, Mr. and Mrs. Steve Stanley, Warren Hall, H. D. Thompson, Mrs. Archie Clough, Mr. and Mrs. Chas. Tiegen, Mrs. Glenn Ayers, Mrs. John George, Mrs. A. J. Castle, Mattie Burke, Clara Mitchell, Mrs. A. I. Buchecker, Mr. and Mrs. E. M. Clough, Mr. and Mrs. G. W. Morrow, Dr. H. E. Adler (Spokane Bird Club).

297. Willapa National Wildlife Refuge, Ilwaco, Wash. (same area as in 1940 and subsequent counts; east, south, and west boundary of Willapa Refuge, tidal bays, shore line, edges of alder, spruce, hemlock woods).—Dec. 29; 8 a.m. to 5 p.m. Clear; calm; temp. 30° to 39°. Two observers together. Total hours, 16; total miles, 39 (9 on foot, 30 by car). Pacific loon, 6; western grebe, 9; Brandt's cormorant, 19; great blue heron, 12; baldpate, 120; pintail, 2; greater scaup, 9; Am. golden-eye, 2; buffle-head, 36; white-winged scoter, 4; surf scoter, 1; ruddy duck, 10; Am. merganser, 18; red-breasted merganser, 2; unidentified ducks, 200 (est.); Cooper's hawk, 1; red-tailed hawk, 2; sparrow hawk, 3; killdeer, 10; red-backed sandpiper, 4000 (est.); sanderling, 5800 (est.); glaucous-winged gull, 50; western gull, 26; belted kingfisher, 1; red-shafted flicker, 2; red-naped sapsucker, 1; Steller's jay, 1; raven, 2; crow, 75; chestnut-backed chickadee, 6; Bewick's wren, 4; robin, 10; varied thrush, 1; Calif. purple finch, 1; spotted towhee, 4; Oregon junco, 20; fox sparrow, 1; song sparrow, 79. **Total,** 37 species; about 10,550 individuals.—Maurice and Leigh Hinshaw.

298. Eugene, Ore. (center of town to and around Fern Ridge Reservoir, 5 miles west of town; open lake 5%, open mud flat 5%, cultivated field 20%, pastureland 40%, Douglas fir forest 10%, deciduous forest 20%).—Dec. 29; 8 a.m. to 5 p.m. At 9 a.m., sky 1/10 covered with altocumulus clouds at 5500 ft., temp. 32° F., wind N 4-5 m.p.h.; at 3 p.m. clear, temp. 37° F, wind NNW 13 m.p.h.; ground frozen in a.m., gradually thawing in p.m.; all water open except for small ponds. Twelve observers in 8 parties. Total hours, 38 (4 in boat, 28 on foot, 6 by car); total miles, 48 (2 by boat, 17 on foot, 29 by car). Red-throated loon, 1; western grebe, 16; double-crested cormorant, 7; great blue

heron, 25; Canada goose, 200 (est.); white-cheeked goose, 1200 (est.); cackling goose, 60; lesser Canada goose, 24; (Canada goose forms identified by 8x binoculars at about 100 yds. on ground and in flight—G.W.G.); lesser snow goose, 8; mallard, 329; gadwall, 2; green-winged teal, 250; pintail, 37; shoveller, 13; wood duck, 14; ring-necked duck, 6; lesser scaup, 7; hooded merganser, 2; Am. merganser, 16; sharp-shinned hawk, 1; Cooper's hawk, 2; red-tailed hawk, 12; marsh hawk, 3; duck hawk, 1; sparrow hawk, 29; bob-white, 7; ring-necked pheasant, 44; coot, 17; killdeer, 1584; Wilson's snipe, 10; western sandpiper, 20; ring-billed gull, 28; horned owl, 2; burrowing owl, 1 (rare resident identified at 50 ft. with 8x binoculars—R.E.H.); belted kingfisher, 1; red-shafted flicker, 125; Calif. woodpecker, 1; Lewis's woodpecker, 2; hairy woodpecker, 3; downy woodpecker, 3; horned lark, 30; Steller's jay, 27; raven, 18; crow, 13; black-capped chickadee, 167; chestnut-backed chickadee, 2; white-breasted nuthatch, 11; red-breasted nuthatch, 26; brown creeper, 5; winter wren, 4; Bewick's wren, 3; robin, 184; varied thrush, 2; hermit thrush, 10; western bluebird, 111; Townsend's solitaire, 1; golden-crowned kinglet, 51; ruby-crowned kinglet, 39; Am. pipit, 364; cedar waxwing, 48; northwestern shrike, 1 (identified at 25 ft.—R.E.H.); Audubon's warbler, 71; English sparrow, 67; meadowlark, 49; red-wing, 13; Brewer's blackbird, 1684; purple finch, 44; house finch, 11; goldfinch (*tristis* group), 30; spotted towhee, 71; savannah sparrow, 16; vesper sparrow, 4 [no details—Ed.]; lark sparrow, 1 (regular visitor at feeding tray—J.H.P.); Oregon junco, 888; white-crowned sparrow, 10; golden-crowned sparrow, 65; fox sparrow, 9; song sparrow, 88. **Total,** 78 species and subspecies; about 8351 individuals. (Seen in area Dec. 23-28: pied-billed grebe, 1; pigeon hawk, 3 [no details—Ed.]; valley quail, 12; long-billed dowitcher, 2 [no details—Ed.]; mourning dove, 1; short-eared owl, 5; pileated woodpecker, 1; red-breasted sapsucker, 2; Calif. jay, 3; long-billed marsh wren, 1; pine siskin, 'many.')—Ruth E. Hopson, Mrs. Karl Onthank, Mrs. Helen Kilpatrick, Mrs. Geo. Saunders, Catharine Dunlop, J. Hugh Pruett, Ben Pruitt, Ray Wiseman, Mr. Dudeck, Richard S. Smith, Dan Dion, Gordon W. Gullion (Eugene Natural History Society).

299. Portland, Ore. (15-mile diameter circle, centered downtown, same as in 1937 and subsequent counts; brushy lowlands 15%, fir woodlands 14%, deciduous woodlands 10%, lakes and rivers 13%, farmlands 22%, residential areas 26%).—Dec. 29. Clear and bright; temp. 25° to 32°; wind 5-8 m.p.h. Sixty-six observers in 16 parties. Total hours, 138 (109 afoot, 22 by car, 7 by bicycle); total miles, 394 (119 afoot, 264 by car, 11 by bicycle). Loon (sp.?), 1; horned grebe, 2; pied-billed grebe, 10; double-crested cormorant, 46; great blue heron, 81; Anthony's green heron, 1 [no details—Ed.]; black-crowned night heron, 1; Canada goose, 12; mallard, 1149; gadwall, 3; European widgeon, 2 [no details—Ed.]; baldpate, 4548; pintail, 477; green-winged teal, 1190; shoveller, 25; canvas-back, 1; lesser scaup, 13; buffle-head, 67; ruddy duck, 2; hooded merganser, 2; Am. merganser, 18; sharp-shinned hawk, 8; Cooper's hawk, 3; red-tailed hawk, 20; sparrow hawk, 13; ruffed grouse, 1; valley quail, 8; ring-necked pheasant, 142; coot, 391; killdeer, 394; Wilson's snipe, 32; spotted sandpiper, 2; glaucous-winged gull, 436; herring gull, 103; Calif. gull, 600 (est.); ring-billed gull, 323; short-billed gull, 979; gulls, species not determined, 6600 (est.); mourning dove, 2; screech owl, 1; belted kingfisher, 6; red-shafted flicker, 192; Lewis's woodpecker, 1; red-breasted sapsucker, 3; Harris's woodpecker, 12; Gairdner's woodpecker, 59; Steller's jay, 71; Calif. jay, 6; crow, 942; black-capped chickadee, 488; chestnut-backed chickadee, 21; bush-tit, 215; white-breasted nuthatch, 9; red-breasted nuthatch, 2; creeper, 7; winter wren, 110; Bewick's wren, 64; robin, 6568; varied thrush, 63; hermit thrush, 2; western bluebird, 8; Townsend's solitaire, 2; golden-crowned kinglet, 340; ruby-crowned kinglet, 55; Am. pipit, 179; cedar waxwing, 35; Hutton's vireo, 1; myrtle warbler, 15; Audubon's warbler, 92; English sparrow, 715; meadowlark, 113; red-wing, 38; Brewer's blackbird, 629; evening grosbeak, 22; Calif. purple finch, 113; house finch, 137; pine siskin, 939; willow goldfinch, 537; green-backed goldfinch, 38; spotted towhee, 189; slate-colored junco, 27; Oregon junco, 2434; white-throated sparrow, 1 (close-up—N.L.) [no further details—Ed.]; white-crowned sparrow, 15; golden-crowned sparrow, 168; fox sparrow, 17; Lincoln's sparrow, 5 (by 3 widely separated parties); song sparrow, 1405. **Total,** 87 species; approximately 34,819 individuals. (Dec. 28; ring-billed gull, 1; glaucous gull, 1; least sandpiper, 1—W.H.T., T.H.M., D.B.M.)—David B. Marshall, Earl A. Marshall, Albert W. Marshall, Nancy Marshall, George Ruby, Thomas H. McAllister, Norbert Leupold, Norbert Leupold, Jr., Louis Oberson, Mrs. Bessie Eberting, Mr. and Mrs. C. L. Marshall, Mr. and Mrs. Ben F. Layman, Mr. and Mrs. Herbert C. Judd, Clyde L. Keller, Waldo Ek, Mrs. F. C. Blakeslee, Mrs. Whitney Starr, O. E. Wheeler, Mrs. Christine Morgan, Mr. and Mrs. Frank A. Bartlett, Mrs. Carl Groth, Carl Groth, Jr., Mrs. W. H. Holden, Mr. and Mrs. Leo F. Simon, L. L. Schramm, Ed. Kelham, J. R. Williams, Wm. H. Telfer, Brian K. McNab, Rev. T. McCamant, John McCamant, Henry Steinbrugge, Sr., Arlie Seaman, Mr. and Mrs. Higgins, Norma G. Seaman, Mr. and Mrs. Kenneth Leatherman, Mrs. Susie Nicholson, Mr. and Mrs. J. W. C. Williams, Isabel Wildes,

Esther Maegly, Mrs. Harry M. Hendershott, Carl G. Jacobsen, Mr. and Mrs. Herbert Retzlaff, Mr. and Mrs. W. H. Crowell, Thornton T. Munger, Jerry Warnock, Mrs. T. H. Brown, LeForest McCroskey, P. E. Lewis, Al. Hanson, Mr. and Mrs. A. L. Campbell, Mrs. E. J. Berneche, Mrs. Hayes, Robert Livingstone, Jr., Ernest T. Livingstone (Oregon Audubon Society).

300. Benicia (Solano Co.), Calif. (same area as in 1933 and several subsequent years; observers together by car with frequent stops to canvass marsh, waterfront, and live-oak hill area along highway between Benicia and Cordelia, these towns being 14 miles apart; Benicia waterfront 25%, marsh 25%, open fields 10%, hills 40%).—Dec. 28; 8:30 a.m. to 4:30 p.m. Clear; wind N, 1-5 m.p.h.; temp. 38° to 48° F. Total hours, 16 (15 on foot, 1 by car); total miles, 48 (30 by car, 18 on foot). Western grebe, 1; great blue heron, 3; Am. egret, 20; black-crowned night heron, 17; pintail, 2000 (est.); shoveller, 500 (est.); canvas-back, 800 (est.); lesser scaup, 28; Am. golden-eye, 8; ruddy duck, 24; sharp-shinned hawk, 1; red-tailed hawk, 6; marsh hawk, 9; sparrow hawk, 27; Calif. quail, 40; Virginia rail, 2; sora, 2; coot, 1300 (est.); killdeer, 18; black-bellied plover, 5; Wilson's snipe, 1; western willet, 3; greater yellow-legs, 1; red-backed sandpiper, 48; glaucous-winged gull, 11; western gull, 130; Calif. gull, 6; ring-billed gull, 2; short-billed gull, 1; Bonaparte's gull, 32; barn owl, 2; great horned owl, 2; Anna's hummingbird, 7; red-shafted flicker, 18; Calif. jay, 38; bush-tit, 45; marsh wren, 6; rock wren, 1; robin, 14; western bluebird, 5; mountain bluebird, 28; ruby-crowned kinglet, 20; pipit, 27; loggerhead shrike, 28; Audubon's warbler, 45; English sparrow, 60; meadowlark, 250 (est.); red-wing, 80; Brewer's blackbird, 2500 (est.); purple finch, 1; house finch, 185; willow goldfinch, 1200 (est.); green-backed goldfinch, 12; spotted towhee, 18; savannah sparrow, 110; junco, 60; Nuttall's sparrow, 140; golden-crowned sparrow, 80; song sparrow, 68. **Total,** 59 species; about 10,096 individuals. The 2 species of rails were carefully studied through field glasses at about 50 ft. from deck of a ferry anchored on shore of Southampton Bay; birds came from heavy tule growth a yard or so into the open to feed on refuse from the boat.—Emerson A. Stoner, Donald E. Stoner.

301. Big Bear Lake, Calif. (parts of a 15-mile diameter circle centering 2½ miles north of town of Big Bear Lake; altitudinal range 3550-7800 ft.; same area as taken since 1941; coniferous forest 35%, mountain lakes and open shore 16%, mountain meadow 8%, sagebrush [*Artemisia*] 7%; piñon-juniper association 9%, creosote bush association 7%, desert willows and cottonwoods 7%, alders, oaks, and canyon stream 8%, chaparral 9%).—Dec. 29; 6 a.m. to 5 p.m. Clear; wind SW, increasing from 0 m.p.h. at dawn to 25 m.p.h. in Bear Valley in mid-day, lessening and gusty on desert slope; temp., at Big Bear Lake 16° F. at 7:30 a.m. (max. about 42° F.), on desert slope 26° F. at 6:30 a.m. (45° F. at 3 p.m.), in Santa Ana Canyon, 28° at start; snow, 0-3 ft. deep in Bear Valley, melting to bare ground on south-facing slopes under 8000 ft. by end of day; lakes still far below normal water level from dry season of 1945-46; most shallow water frozen. Thirteen observers in 4 parties. Total hours, 32 (on foot or with numerous short side trips from cars); total miles, about 44 (19 on foot, 25 by car along lake shore for waterfowl and meadow birds). Eared grebe, 53; pied-billed grebe, 3; great blue heron, 6; mallard, 1; gadwall, 6; baldpate, 200 (est.); pintail, 5; green-winged teal, 4; ring-necked duck, 2; canvas-back, 250 (est.); lesser scaup, 135 (est.); ruddy duck, 240 (est.); Am. merganser, 9; Cooper's hawk, 1; red-tailed hawk, 8; golden eagle, 2; bald eagle, 3; mountain quail, 7; coot, 9000 (careful estimate; lowest population in years here); Wilson's snipe, 1 (at spring on desert slope—Stultz, *et. al.*); shorebird (sp.?), 40 (small to medium size, too far to identify—Cogswell, Smith); ring-billed gull, 4; mourning dove, 1; road-runner, 1; horned owl, 2; red-shafted flicker, 8; Calif. woodpecker, 12; Williamson's sapsucker, 4; hairy woodpecker, 3; downy woodpecker, 1 (in Santa Ana Canyon, exceptionally high altitude —Dawson, Murdock); cactus woodpecker, 1; white-headed woodpecker, 8; Say's phoebe, 1; horned lark, 8; Steller's jay, 10; Calif. jay, 13; Clark's nutcracker, 1; mountain chickadee, 203; plain titmouse, 2; bush-tit, 155; white-breasted nuthatch, 5; pygmy nuthatch, 52; creeper, 8; wren-tit, 9; dipper, 1; Bewick's wren, 4; cactus wren, 14; rock wren, 1; Calif. thrasher, 2; Leconte's thrasher, 1; sage thrasher, 1; robin, 34; western bluebird, 5; Townsend's solitaire, 10; plumbeous gnatcatcher, 1 (desert slope, rare on Mojave—Stultz, Groner, Frederick, Miller, Curry); golden-crowned kinglet, 3 (Dawson, Murdock); ruby-crowned kinglet, 4; loggerhead shrike, 2; Hutton's vireo, 1 (positive identification; in Santa Ana Canyon, very high altitude for winter—Dawson, Murdock); English sparrow, 1; western meadowlark, 3; Brewer's blackbird, 2; Cassin's purple finch, 50; house finch, 3; pine siskin, 3; green-backed goldfinch, 25; spotted towhee, 2; brown towhee, 3; desert sparrow, 20 (first recorded here in winter, although common in summer—Stultz, *et. al.*); sage sparrow, 15; Oregon junco, 88; chipping sparrow, 1; white-crowned sparrow, 6; golden-crowned sparrow, 8. **Total,** 74 species; about 10,802 individuals. (Note: names used refer to species as a whole, not to any particular racial

form.)—Ruby Curry, William R. Dawson, Paul Fleming, John Frederick, Milton Frincke, Dorothy Groner, Mrs. E. C. Miller, Mr. and Mrs. James Murdock, S. Galen Smith, Mr. and Mrs. O. M. Stultz, Howard L. Cogswell.

302. Fresno, Calif. (same area as since 1943; area 5 miles in diameter at Lanes Bridge on San Joaquin River, 10 miles north of Fresno in San Joaquin valley; open plains 20%, river-bottom of San Joaquin and thickets along both sides of river, and narrow pond 1 mile long 80%).—Dec. 27; 9 a.m. to 5:30 p.m. Rain until 10 a.m., 1 hour of fog, then clear with brisk N wind; temp. 50° to 58°. One observer. Total hours, 8½; total miles, 21 (5 on foot, 16 by car). Pied-billed grebe, 4; great blue heron, 2; Am. egret, 4; snowy egret, 2; black-crowned night heron, 2; Am. bittern, 1; Canada goose, 39; lesser Canada goose, 9; mallard, 2; pintail, 25; wood duck, 6; ring-necked duck, 4; Am. golden-eye, 1; turkey vulture, 1; sharp-shinned hawk, 1; Cooper's hawk, 2; red-tailed hawk, 9; red-bellied hawk, 1; ferruginous rough-leg, 2; golden eagle, 1; marsh hawk, 1; prairie falcon, 1; sparrow hawk, 6; valley quail, 55; Florida gallinule, 3; coot, 6; killdeer, 8; Wilson's snipe, 1; spotted sandpiper, 3; greater yellow-legs, 2; mourning dove, 3; belted kingfisher, 2; red-shafted flicker, 16; downy woodpecker, 2; Nuttall's woodpecker, 5; black phoebe, 12; Say's phoebe, 1; horned lark, 79; Calif. jay, 23; plain titmouse, 4; bush-tit, 30; wren-tit, 1; house wren, 1; Bewick's wren, 5; rock wren, 1; mockingbird, 4; robin, 3; western bluebird, 12; mountain bluebird, 1; ruby-crowned kinglet, 15; Am. pipit, 17; cedar waxwing, 8; phainopepla, 1; loggerhead shrike, 1; orange-crowned warbler, 1; myrtle warbler, 2; English sparrow, 7; western meadowlark, 162; Brewer's blackbird, 321 (est.); dwarf cowbird, 1; willow goldfinch, 8; green-backed goldfinch, 1; spotted towhee, 8; brown towhee, 13; savannah sparrow, 2; lark sparrow, 4; house finch, 38; Oregon junco, 14; Gambel's sparrow, 71; golden-crowned sparrow, 30; Lincoln's sparrow, 1; song sparrow, 4. **Total,** 72 species and subspecies; about 1139 individuals.—W. B. Minturn.

303. Los Angeles, Calif. (territory same as in previous 9 years, taking in short stretch of ocean beach 10%, salt-water marsh, lagoons, canals 5%, gun-club fresh-water marsh 5%, weedy and ploughed fields, roadsides, open country 5%, brush-covered foothill slopes 20%, oak and holly canyon areas 25%, city parks including park lakes 15%, reservoirs and enclosed areas 13%, golf courses, cemeteries, and campus 1%, city and suburban streets and yards 1%).—Dec. 22; 5:30 a.m. to 5:30 p.m. Heavily overcast nearly all day; temp. 53° to 66°; wind E to SE, 1-7 m.p.h.; ground with grass and weeds up from early heavy rains. Forty-one observers in 17 parties. Total hours, 103 (82 on foot, 21 by car); total miles, 268 (83 on foot, 185 by car). Common loon, 2; Pacific loon, 8; red-throated loon, 3; horned grebe, 2; eared grebe, 5; western grebe, 367; pied-billed grebe, 51; brown pelican, 78; double-crested cormorant, 84; Brandt's cormorant, 1; Baird's cormorant, 1; great blue heron, 12; Am. egret, 38; snowy egret, 42; Anthony's green heron, 3; black-crowned night heron, 32; Am. bittern, 1; cackling goose, 1; gadwall, 4; baldpate, 12; pintail, 367; green-winged teal, 6; cinnamon teal, 1; shoveller, 247; wood duck, 1; redhead, 1; ring-necked duck, 1; canvas-back, 1; lesser scaup, 242; buffle-head, 1 (♀; seen at 20 yds.—Ecklers); harlequin duck, 1 (♀; observed for 20 min. with medium B. & L. binoculars—W. A. Kents); white-winged scoter, 6; surf scoter, 385; ruddy duck, 42; Am. merganser, 12; red-breasted merganser, 38; turkey vulture, 3; sharp-shinned hawk, 7; Cooper's hawk, 3; red-tailed hawk, 18; golden eagle, 1; marsh hawk, 9; duck hawk, 1; sparrow hawk, 78; valley quail, 183; Calif. clapper rail, 1; coot, 829; snowy plover, 8; semipalmated plover, 1; killdeer, 465; black-bellied plover, 136; surf-bird, 7; ruddy turnstone, 4; black turnstone, 16; Wilson's snipe, 3; long-billed curlew, 4; Hudsonian curlew, 13; spotted sandpiper, 10; willet, 695; greater yellow-legs, 7; least sandpiper, 552; red-backed sandpiper, 20; long-billed dowitcher, 395; western sandpiper, 200; marbled godwit, 331; sanderling, 145; avocet, 173; black-necked stilt, 1; glaucous-winged gull, 242; western gull, 152; herring gull, 25; Calif. gull, 820; ring-billed gull, 1545; short-billed gull, 2; Bonaparte's gull, 386; Heermann's gull, 94; Forster's tern, 2; band-tailed pigeon, 48; mourning dove, 416; Chinese spotted dove, 141; ringed turtle dove, 24; road-runner, 4; barn owl, 2; horned owl, 3; burrowing owl, 1; white-throated swift, 20; black-chinned hummingbird, 1 (wintering over) [no further details—Ed.]; Anna's hummingbird, 101; belted kingfisher, 10; red-shafted flicker, 149; Calif. woodpecker, 18; red-breasted sapsucker, 1; downy woodpecker, 2; Nuttall's woodpecker, 7; ash-throated flycatcher, 1 (wintering over); black phoebe, 138; Say's phoebe, 16; horned lark, 75; Calif. jay, 125; raven, 4; crow, 5; mountain chickadee, 8; plain titmouse, 33; bush-tit, 504; white-breasted nuthatch, 4; creeper, 1; wren-tit, 175; house wren, 6; Bewick's wren, 23; long-billed marsh wren, 6; mockingbird, 153; Calif. thrasher, 73; robin, 70; hermit thrush, 33; western bluebird, 27; western gnatcatcher, 23; ruby-crowned kinglet, 149; Am. pipit, 164; cedar waxwing, 24; loggerhead shrike, 77; Hutton's vireo, 5; orange-crowned warbler, 4; Audubon's warbler, 4130; black-throated gray warbler, 1; yellow-throat, 17; English sparrow, 368; western meadowlark, 297; red-wing, 570; tricolored red-wing, 50; Brewer's blackbird, 2617; cowbird, 3;

Calif. purple finch, 42; Cassin's purple finch, 1; house finch, 7705; common goldfinch, 132; green-backed goldfinch, 317; spotted towhee, 42; brown towhee, 280; savannah sparrow, 73; Belding's sparrow, 20; large-billed sparrow, 6; grasshopper sparrow, 1 (seen well with 8x binoculars at 25 ft.; all identification marks noted—Cogswell); lark sparrow, 5; rufous-crowned sparrow, 7; Oregon junco, 140; chipping sparrow, 8; Gambel's sparrow, 1179; golden-crowned sparrow, 23; fox sparrow, 8; Lincoln's sparrow, 6; song sparrow, 105. **Total,** 151 species and subspecies; approximately 30,713 individuals.—Wyatt and Christine Kent, Mr. and Mrs. Geo. T. Hastings, Mr. and Mrs. Louis Anderson, Mrs. May Warrick, Stanley Brode, Howard L. Cogswell, Mr. and Mrs. C. J. Parker, Mary V. Hood, M. S. Dunlap, Bob Pierotti, Mr. and Mrs. J. I. Murdock, W. Dan Quattlebaum, Mrs. Enid R. Michael, Bess M. Hoffman, Ruby Curry, Arthur L. Berry, Constance Berry, Mr. and Mrs. L. H. Beebe, Paul W. and Con W. Colburn, Clara E. Weedmark, S. Galen Smith, Dan D. Streeter, Dorothy Getz, C. R. Thomas, Mary B. Salmon, Harriet Damert, Mr. and Mrs. Harlan E. Eckler, Dorothy Groner, Bill Dawson, O. M. Stultz, Laura Greely, May Wait, Caroline H. Daugherty (Southwest Bird Study Club, Santa Monica Nature Club, Pasadena Aubudon Society, Los Angeles Audubon Society).

304. Marysville, Calif. (center of town including public parks, 1 mile; woods and river-bottoms northwest of Marysville, 2 miles; unimproved portion of Ellis Lake in outlying district within city limits, 1 mile; north along irrigated farmlands, including private waterfowl preserve, 10 miles; northeast in wooded foothill section, 10 miles; south and east in tules and rice fields, 5 miles; open farmland 40%, wooded foothills, 20%, town suburbs 10%, deciduous town woodlots 15%, cattail marsh 15%).—Dec. 29; 10 a.m. to 5 p.m. Overcast in a.m., clear in p.m.; temp. 40°; visibility good; wind NW, 1-7 m.p.h. Eight observers in 4 parties. Total hours, 48 (12 on foot, 36 by car); total miles, 80 (10 on foot, 70 by car). Pied-billed grebe, 4; great blue heron, 13; Am. egret, 44; green heron, 2; black-crowned night heron, 24; Canada goose, 50; lesser Canada goose, 400 (est.); white-fronted goose, 20; lesser snow goose, 2; goose (sp.?), 1200 (est.); mallard, 3575 (est.); pintail, 3514 (est.); wood duck, 2; duck (sp.?), 5000 (est.); turkey vulture, 6; sharp-shinned hawk, 1; red-tailed hawk, 1; golden eagle, 1; marsh hawk, 15; duck hawk, 1; sparrow hawk, 36; Calif. quail, 39; ring-necked pheasant, 9; Florida gallinule, 4; coot, 2246 (est.); killdeer, 5; Wilson's snipe, 37; spotted sandpiper, 4; western sandpiper, 120; willet, 2; band-tailed pigeon, 2; mourning dove, 39; barn owl, 2; saw-whet owl, 1 (dead); belted kingfisher, 6; red-shafted flicker, 49; Calif. woodpecker, 105; downy woodpecker, 1; Nuttall's woodpecker, 1; red-headed woodpecker, 2 [normally occurs west only to Colorado; no details furnished; = red-breasted sapsucker? — Ed.]; black phoebe, 9; Say's phoebe, 2; horned lark, 3; Calif. jay, 7; yellow-billed magpie, 60; crow, 18; plain titmouse, 7; bush-tit, 40; white-breasted nuthatch, 3; creeper, 1; winter wren, 2; Bewick's wren, 1; rock wren, 5; mockingbird, 10; robin, 11; western bluebird, 85; mountain bluebird, 104 (est.); Am. pipit, 325; loggerhead shrike, 4; Hutton's vireo, 23 [no details that might account for such a large number; = ruby-crowned kinglet? — Ed.]; myrtle warbler, 25; Audubon's warbler, 60; English sparrow, 149; western meadowlark, 745 (est.); red-wing, 501 (est.); Brewer's blackbird, 9394 (est.); house finch, 79; common goldfinch, 506 (est.); green-backed goldfinch, 75; spotted towhee, 45; brown towhee, 9; savannah sparrow, 54; lark sparrow, 160; slate-colored junco, 5; Oregon junco, 449; white-crowned sparrow, 539 (est.); golden-crowned sparrow, 189 (est.); song sparrow, 3. **Total,** 76 species and subspecies; about 30,292 individuals. —J. C. Ries, J. R. Beeson, Gertrude Cable, Tunia Vandenbout, Evelyn Lamberskin, Bessie Lamberskin, Sara Jane Ries, Charles Ries.

305. Monterey Peninsula Region, Calif. (by boat from Monterey Harbor into open ocean 6 miles southwest of Point Pinos; Laguna del Rey, Hotel Del Monte pond and golf course, El Estero, canyon in the Aguajito region, oak-studded hillside at foot of Jack's Peak, Pacific Grove waterfront and golf course, Point Pinos pond, Moss Beach, Seal Rocks, Cypress Point, Carmel River-mouth lagoon, north along waterfront to Pebble Beach, section of pine-filled canyon at north city limit of Carmel, parts of Carmel village, area in vicinity of intersection of State Highway 1 and Carmel Valley road, areas along the latter road 3.3 miles east of intersection, Point Lobos and vicinity; all counts made within a 12-mile diameter and only along routes or in particular areas indicated; none made during car transportation between places; open ocean 10%, bay exposed to ocean observed from land 10%, beach 5%, river-mouth lagoon 3%, ponds and tule swamp 12%, rocky shore 6%, open fields 6%, brushland 12%, Monterey pine association 17%, indigenous Monterey cypress grove 1%, live oaks 4%, golf courses 10%, gardens and village streets 4%).—Dec. 22. Cloudy; temp. 50° to 62° F.; wind SW, 5 m.p.h.; ground bare. Sixteen observers in 3 parties until 4:30 p.m., then combined. Total hours, 28½ (24 hrs. 10 min. on foot, 1 hr. 20 min. in car, 3 hrs. in boat); total miles, 43¾ (21 on foot, 4¾ in car, 18 in boat). Common loon, 1; Pacific loon, 11; red-throated loon, 2; Holboell's grebe, 3; horned grebe, 11; eared grebe,

12; western grebe, 77; pied-billed grebe, 5; sooty shearwater, 8; pink-footed shearwater, 1; Pacific fulmar, 2; brown pelican, 403; double-crested cormorant, 10; Brandt's cormorant, 581; Baird's cormorant, 34; Brewster's snowy egret, 1; black-crowned night heron, 1; Canada goose, 2; mallard, 61; pintail, 35; green-winged teal, 2; cinnamon teal, 4; shoveller, 40; ring-necked duck, 8; canvas-back, 25; scaup, (sp.?), 3; Am. golden-eye, 1; white-winged scoter, 4; surf scoter, 75; ruddy duck, 121; red-breasted merganser, 45; white-tailed kite, 2; Cooper's hawk, 1; red-tailed hawk, 8; red-bellied hawk, 2; marsh hawk, 1; duck hawk, 2; sparrow hawk, 11; Calif. quail, 53; Virginia rail, 6; sora, 1; coot, 262; black oyster-catcher, 7; snowy plover, 21; killdeer, 60; surf-bird, 3; black turnstone, 88; Wilson's snipe, 8; long-billed curlew, 1; spotted sandpiper, 1; willet, 1; least sandpiper, 5; sanderling, 224; glaucous-winged gull, 677; western gull, 1200; herring gull, 189; Calif. gull, 512; short-billed gull, 171; Bonaparte's gull, 1; Heermann's gull, 11; Pacific kittiwake, 35; Calif. murre, 4; Cassin's auklet, 105; rhinoceros auklet, 40; band-tailed pigeon, 13; rock dove, 20; barn owl, 1; horned owl, 2; saw-whet owl, 1; Anna's hummingbird, 6; belted kingfisher, 4; red-shafted flicker, 45; Calif. woodpecker, 11; hairy woodpecker, 11; downy woodpecker, 1; Nuttall's woodpecker, 2; black phoebe, 25; Say's phoebe, 10; horned lark, 27; Steller's jay, 6; Calif. jay, 25; yellow-billed magpie, 23; crow, 22; chestnut-backed chickadee, 40; plain titmouse, 10; bush-tit, 61; pygmy nuthatch, 51; creeper, 1; wren-tit, 16; winter wren, 4; Bewick's wren, 13; long-billed marsh wren, 2; mockingbird, 1; Calif. thrasher, 1; robin, 51; varied thrush, 2; hermit thrush, 16; western bluebird, 6; western gnatcatcher, 11; ruby-crowned kinglet, 30; Am. pipit, 106; cedar waxwing, 10; loggerhead shrike, 2; Hutton's vireo, 5; Townsend's warbler, 7; myrtle warbler, 15; Audubon's warbler, 57; yellow-throat, 5; English sparrow, 40; western meadowlark, 150; red-wing, 52; Brewer's blackbird, 244; purple finch, 1; house finch, 183; spotted towhee, 16; brown towhee, 2; savannah sparrow, 1; Oregon junco, 26; white-crowned sparrow, 158; golden-crowned sparrow, 93; fox sparrow, 8; Lincoln's sparrow, 1; song sparrow, 16. **Total,** 123 species; 7071 individuals. (Note: names used refer to species as a whole and do not imply any particular racial form.)—Harriet Baker, Talcott Bates, Barbara Bebb, Sumner C. Brooks, Sunny Cook, Wilma Cook, John Davis, Alan Eversoll, Hilary Helsley, Jessie S. Gilby, Joe T. Marshall, Jr., Florence Morrow, Beva Pilling, Charles Sibley, Robert W. Storer, Laidlaw Williams (Monterey Peninsula Audubon Society).

306. Mt. Tamalpais State Park Region (Marin Co.), Calif. (Sausalito to Stinson Beach, back to Mill Valley via Richardson's Bay, Mill Valley, and Mt. Tamalpais State Park; pine and mixed woods 60%, bay shore with salt marsh and mud-flats 20%, open fields 15%, city streets and gardens 3%, chaparral 2%).—Dec. 28. Clear all day, partly cloudy at dusk; temp. 32° to 50°; wind WNW at dusk, none during day. Two observers in 1 party. Total party miles, 30 (on foot); total party hours, 13½ (on foot). Common loon, 5; Pacific loon, 2; horned grebe, 7; eared grebe, 6; western grebe, 75; pied-billed grebe, 4; brown pelican, 13; double-crested cormorant, 10; Brandt's cormorant, 1; great blue heron, 2; Am. egret, 8; pintail, 175 (est.); redhead, 1; canvas-back, 300 (est.); greater scaup, 2; lesser scaup, 40; buffle-head, 15; surf scoter, 10; Am. scoter, 1; ruddy duck, 100 (est.); turkey vulture, 1; marsh hawk, 1; coot, 75; killdeer, 4; least sandpiper, 4; western sandpiper, 75; sanderling, 11; western gull, 75; herring gull, 10; Calif. gull, 50; ring-billed gull, 3; short-billed gull, 2; belted kingfisher, 1; red-shafted flicker, 10; hairy woodpecker, 1; black phoebe, 6; Say's phoebe, 2; Steller's jay, 4; Calif. jay, 4; crow, 12; chestnut-backed chickadee, 5; bush-tit, 35; wren-tit, 8; varied thrush, 6; western bluebird, 1; golden-crowned kinglet, 4; Am. pipit, 1; myrtle warbler, 1; Audubon's warbler, 12; English sparrow, 50; western meadowlark, 1; Brewer's blackbird, 50; house finch, 5; common goldfinch, 15; brown towhee, 2; Oregon junco, 20; Nuttall's sparrow, 50; song sparrow, 5. **Total,** 58 species; about 1399 individuals.—Hugh F. Schaefer, Henry L. Clever.

307. Oakland, Calif. (Mills College and near vicinity, Leona Heights, Sequoia Park, area adjacent to Skyline Boulevard south of Sequoia Park, Lake Merritt, San Leandro Bay, and Bay Farm Island).—Dec. 28; 7:30 a.m. to 5:15 p.m. Partly cloudy in a.m., clear in p.m.; temp. 34° to 54°. Five observers working in 2 parties. Total miles, 41½ (18½ on foot, 23 by car); total hours, 19¼ (17¼ on foot, 2 by car). Loon (sp.?), 1; eared grebe, 45; western grebe, 10; pied-billed grebe, 10; double-crested cormorant, 30; great blue heron, 10; Am. egret, 25; black-crowned night heron, 12; white-fronted goose, 3; mallard, 25; baldpate, 300 (est.); pintail, 800 (est.); green-winged teal, 24; shoveller, 46; canvas-back, 350; scaup (sp.?), 800 (est.); Am. golden-eye, 50; buffle-head, 15; white-winged scoter, 2 (plus 1000 unidentified scoters); ruddy duck, 450; red-breasted merganser, 1; sharp-shinned hawk, 3; Cooper's hawk, 1; red-tailed hawk, 4; marsh hawk, 3; sparrow hawk, 8; Calif. quail, 4; Calif. clapper rail, 1; coot, 600 (est.); semipalmated plover, 20; killdeer, 15; black-bellied plover, 75; willet, 60; greater yellow-legs, 8; least sandpiper, 1000 (est.); red-backed sandpiper, 400 (est.); long-billed dowitcher, 35; western sandpiper, 270; marbled

godwit, 82; sanderling, 44; avocet, 277; glaucous-winged gull, 52; western gull, 16; herring gull, 30; Calif. gull, 114; ring-billed gull, 15; short-billed gull, 10; Bonaparte's gull, 175; Forster's tern, 10; mourning dove, 1; burrowing owl, 2; short-eared owl, 6; Anna's hummingbird, 6; red-shafted flicker, 7; red-breasted sapsucker, 1; black phoebe, 3; horned lark, 10; Steller's jay, 3; Calif. jay, 8; plain titmouse, 4; bush-tit, 22; red-breasted nuthatch, 2; creeper, 3; wren-tit, 5; winter wren, 4; Bewick's wren, 4; mockingbird, 2; robin, 113; varied thrush, 11; hermit thrush, 6; western bluebird, 4; golden-crowned kinglet, 20; ruby-crowned kinglet, 6; Am. pipit, 51; cedar waxwing, 23; loggerhead shrike, 1; Hutton's vireo, 6; myrtle warbler, 2; Audubon's warbler, 11; Townsend's warbler, 7; English sparrow, 162; western meadowlark, 66; red-wing, 70; Brewer's blackbird, 301; Calif. purple finch, 13; house finch, 257; pine siskin, 53; goldfinch, 2; spotted towhee, 6; brown towhee, 10; savannah sparrow, 21; rufous-crowned sparrow, 3; Oregon junco, 71; white-crowned sparrow, 75; golden-crowned sparrow, 6; fox sparrow, 5; song sparrow, 13. **Total,** 97 species; about 8829 individuals.—Mr. and Mrs. Harry C. Adamson, H. W. Carriger, Leroy L. Jensen, Milton L. Seibert.

308. Oceanside-Carlsbad, Calif. (Lt. Maxton Brown Bird Refuge and vicinity, within 15-mile diameter; open fields 20%, salt marsh 75%, seashore 5%).—Dec. 28; 8:45 a.m. to 3:45 p.m. Fair; temp. 42° to 58° F.; wind SW, 8-12 m.p.h. Six observers together. Total hours, 7 (4½ on foot, 2½ by car); total miles 34 (4 on foot, 30 by car). Horned grebe, 4; eared grebe, 2; western grebe, 5; pied-billed grebe, 6; double-crested cormorant, 1; great blue heron, 2; Am. egret, 3; snowy egret, 17; white-faced glossy ibis, 1 (seen through 8x glasses—M.G.W.); baldpate, 3; pintail, 6; cinnamon teal, 2; shoveller, 169; canvas-back, 47; lesser scaup, 38; buffle-head, 5; ruddy duck, 51; turkey vulture, 1; red-tailed hawk, 1; marsh hawk, 2; sparrow hawk, 2; Florida gallinule, 1; coot, 974; semipalmated plover, 8; killdeer, 4; long-billed curlew, 2; spotted sandpiper, 1; willet, 3; greater yellow-legs, 2; least sandpiper, 3; western sandpiper, 8; marbled godwit, 9; sanderling, 16; avocet, 15; glaucous-winged gull, 3; western gull, 3; Calif. gull, 150; Forster's tern, 12; mourning dove, 2; Anna's hummingbird, 3; belted kingfisher, 1; red-shafted flicker, 4; Cassin's kingbird, 4; black phoebe, 4; Say's phoebe, 3; violet-green swallow, 2 [no details—Ed.]; tree swallow, 6; raven, 4; bush-tit, 10; wren-tit, 2; long-billed marsh wren, 3; mockingbird, 3; Am. pipit, 10; loggerhead shrike, 3; Audubon's warbler, 41; yellow-throat, 2; English sparrow, 6; western meadowlark, 6; red-wing, 47; Brewer's blackbird, 970; house finch, 172; brown towhee, 6; Belding's sparrow, 5; Gambel's sparrow, 9; song sparrow, 14. **Total,** 65 species; 2924 individuals.—Mabel G. Whiting, Vanche Plum, Lana Brokaw, Mrs. Edith W. Thatcher, Everett Thatcher, Marjorie Moody.

309. Orange County (central and coastal), Calif. (Huntington Beach, Newport Beach, Back Bay area inland 2½ miles, Balboa Island, Corona Del Mar, Laguna Beach, and Laguna Canyon; all within 15-mile diameter; urban 5%, salt marsh 5%, cultivation 15%, military reservation 10%, open grassland on low rolling hills 65%).—Dec. 29; 7:52 a.m. to 4:45 p.m. Clear; temp. 40° to 60° F.; wind 0-5 m.p.h. Five observers together. Total hours, 8.53 (½ for lunch, 4½ on foot, 3.85 by car); total miles, 54 (8 on foot, 46 by car). Pacific loon, 1; horned grebe, 30; western grebe, 19; pied-billed grebe, 7; brown pelican, 12; double-crested cormorant, 1; great blue heron, 19; Am. egret, 6; snowy egret, 12; black-crowned night heron, 1; baldpate, 1; pintail, 510; shoveller, 150; redhead, 2; canvas-back, 3; lesser scaup, 13; ruddy duck, 57; turkey vulture, 8; white-tailed kite, 2; sharp-shinned hawk, 2; red-tailed hawk, 2; marsh hawk, 2; sparrow hawk, 11; coot, 1275; killdeer, 500 (est.); black-bellied plover, 1; Wilson's snipe, 2; long-billed curlew, 13; willet, 10; greater yellow-legs, 18; Am. knot, 11 (perfect light; seen at 100 ft. with 7x glasses; had 20 min. to study them and check different points about their behavior; this species seemed to fit their appearance—E.S., G.W., V.P.); western sandpiper, 228; marbled godwit, 1; sanderling, 28; avocet, 398 (actual count); western gull, 8; Calif. gull, 128; ring-billed gull, 2; Bonaparte's gull, 1; Heermann's gull, 4; Forster's tern, 21; road-runner, 1; Anna's hummingbird, 6; belted kingfisher, 1; red-shafted flicker, 7; Calif. woodpecker, 1; Nuttall's woodpecker, 1; black phoebe, 13; Say's phoebe, 5; Calif. jay, 1; crow, 43; bush-tit, 35; wren-tit, 3; long-billed marsh wren, 4; rock wren, 1; mockingbird, 1; blue-gray gnatcatcher, 1; ruby-crowned kinglet, 6; cedar waxwing, 9; loggerhead shrike, 9; Audubon's warbler, 17; yellow-throat, 2; English sparrow, 7; western meadowlark, 15; red-wing, 169; Brewer's blackbird, 186; house finch, 192; green-backed goldfinch, 14; brown towhee, 3; savannah sparrow, 1; lark sparrow, 19; Gambel's sparrow, 22; song sparrow, 8. **Total,** 73 species; about 4323 individuals.—Marjorie Moody, Vanche Plumb, Mabel G. Whiting, Arnold Lane, Earl Sanders (members Orange County Bird Club).

310. Orange County (northeastern), Calif. (Irvine Park, Irvine Lake, Tucker Bird Sanctuary in Modjeska Canyon, Bixby Botanical Gardens in Santa Ana Canyon, within 15-mile diameter; cultivated areas 10%, foothills 50%,

mountains 40%).—Dec. 28; 8 a.m. to 5 p.m. Fair; temp. 44° to 62° F.; wind less than 1 m.p.h. Three observers together. Total hours, 8 (4½ on foot, 3½ by car); total miles, 72 (7 on foot, 65 by car.) Had to stay to hard-surfaced road because of recent rain. Pied-billed grebe, 1; great blue heron, 1; Am. egret, 1; pintail, 130; canvas-back, 50; lesser scaup, 200; white-tailed kite, 1; red-tailed hawk, 6; ferruginous rough-leg, 3; sparrow hawk, 2; Calif. quail, 24; mountain quail, 12; coot, 20; mourning dove, 2; Anna's hummingbird, 3; red-shafted flicker, 3; Calif. woodpecker, 25; western kingbird, 2 [no details—Ed.]; black phoebe, 12; Calif. jay, 25; crow, 5; plain titmouse, 10; bush-tit, 120; wren-tit, 12; mockingbird, 1; hermit thrush, 2; western bluebird, 28; Townsend's solitaire, 4 (fits description perfectly, narrow buffy bar in wing distinctly seen—M.R.H.); cedar waxwing, 35; Calif. shrike, 2; orange-crowned warbler, 2; Audubon's warbler, 47; English sparrow, 8; western meadowlark, 13; Brewer's blackbird, 25; house finch, 10; Lawrence's goldfinch, 10; spotted towhee, 4; brown towhee, 10; Gambel's sparrow, 52; song sparrow, 1. **Total,** 41 species; about 924 individuals.—Eric Eastman, Mrs. Margaret Harding, Mrs. Veda Mashmeyer (Orange County Bird Club).

311. Palo Alto, Calif. (eastern and western sides of lower San Francisco Bay in vicinity of Dumbarton Bridge—tidal salt marshes, exposed mudflats, open salt water; Stanford Univ. campus and adjacent low foothills of Santa Cruz Mts.—eucalyptus and live oak groves, lawns, shrubbery, coniferous and deciduous trees, open fields, and small ponds).—Dec. 28; 7:30 to 11:30 a.m., 1 to 5 p.m. Clear; temp. 32° at start, 60° at noon, 50° at 5 p.m. One observer. Total hours, 8; total miles, 9 (on foot). Horned grebe, 3; eared grebe, 200+; western grebe, 100+; pied-billed grebe, 10; double-crested cormorant, 4; great blue heron, 12; Am. egret, 14; black-crowned night heron, 1; pintail, 1; ring-necked duck, 103; canvas-back, 17; scaup, 250+ (3 greater scaup identified by head color); Am. golden-eye, 6; surf scoter, 1; red-breasted merganser, 20; Cooper's hawk, 2; red-tailed hawk, 1; marsh hawk, 2; sparrow hawk, 8; Calif. quail, 26; Calif. clapper rail, 4; semipalmated plover, 2; black-bellied plover, 12; long-billed curlew, 4; willet, 200+; greater yellow-legs, 6; least sandpiper, 8; (peeps, 300+); red-backed sandpiper, 200+; dowitcher, 14; long-billed dowitcher, 3 (identified by length of bill, barred flanks, and single-noted call); western sandpiper, 3; marbled godwit, 9; avocet, 3; Calif. gull, 4; ring-billed gull, 6; short-billed gull, 4; (gulls, 400+); mourning dove, 1; short-eared owl, 1; Anna's hummingbird, 22; red-shafted flicker, 18; Calif. woodpecker, 6; red-breasted sapsucker, 1; black phoebe, 1; Calif. jay, 16; chestnut-backed chickadee, 17; plain titmouse, 5; bush-tit, 28; Bewick's wren, 2; Calif. thrasher, 1; robin, 150+; western bluebird, 6; ruby-crowned kinglet, 2; Am. pipit, 12; cedar waxwing, 30; loggerhead shrike, 2; Hutton's vireo, 1; Audubon's warbler, 8; Townsend's warbler, 1; hermit warbler, 1 [no details—Ed.]; yellow-throat, 4; western meadowlark, 36; Brewer's blackbird, 60; house finch, 18; willow goldfinch, 22; spotted towhee, 2; brown towhee, 28; savannah sparrow, 17; Oregon junco, 25; Nuttall's sparrow, 40; golden-crowned sparrow, 5; song sparrow, 10. **Total,** 71 species and subspecies; about 2562 individuals.—James P. Rigby.

312. Pasadena, Calif. (portions of a 15-mile diameter circle centering near San Gabriel Blvd. and Duarte Rd. on the San Gabriel-San Marino boundary and extending through the western San Gabriel Valley to San Gabriel River Wildlife Sanctuary and San Jose Creek on the southeast, to Duarte on the northeast, through Pasadena and Eagle Rock section of Los Angeles on the northwest, to Lincoln Park on the southwest, front range of San Gabriel Mountains to summit of Mt. Wilson, 5746 ft. altitude; cattail marsh 2%, river bed 1½%, ponds 6%, river-bottom woodland 9%, open fields, farmland, and gold courses 13%, fruit orchards 2%, suburban residential areas and city parks 25½%, live oak and sycamore woodland 14½%, canyon riparian 2½%, outwash plains 3½%, chaparral slopes 16½%, mountain coniferous forest 4%).—Dec. 28; 6 a.m. to 7 p.m. Mostly clear in a.m., to high overcast in p.m.; temp. 34° F. at start in valley, maximum about 65° F.; no wind; the first good weather after 3½ days of rain. Twenty-eight observers in 14 parties. Total hours, 76; total miles, 80 (excluding transportation between stops). Eared grebe, 1; pied-billed grebe, 5; double-crested cormorant, 2; great blue heron, 13; Am. egret, 31; snowy egret, 16; green heron, 3; black-crowned night heron, 3; mallard, 1; baldpate, 4; wood duck, 1 (♀, on park pond since Nov. —Van Wagner); shoveller, 1; ring-necked duck, 12; lesser scaup, 40; ruddy duck, 3; Am. merganser, 6; turkey vulture, 4; white-tailed kite, 2 (pair on old breeding area since Nov.—Comby); sharp-shinned hawk, 7; Cooper's hawk, 5; red-tailed hawk, 14; red-bellied hawk, 7; duck hawk, 4; sparrow hawk, 65; Calif. quail, 38; ring-necked pheasant, 3; Virginia rail, 5; coot, 112; killdeer, 33; Wilson's snipe, 2; spotted sandpiper, 1; greater yellow-legs, 5; least (?) sandpiper, 15; Calif. gull, 6 (plus 100 gulls too distant for identification; either this or next species); ring-billed gull, 200 (est.); Caspian tern, 1 (present on small fish-stocked ponds in San Gabriel Wash since Nov.—Cogswell, Dawson, Smith); band-tailed pigeon, 37; mourning dove, 69; Chinese spotted dove, 95; barn owl, 3; screech owl, 4; burrowing owl, 1; white-

throated swift, 10; Anna's hummingbird, 54; belted kingfisher, 6; red-shafted flicker, 126; Calif. woodpecker, 47; hairy woodpecker, 1; downy woodpecker, 13; Nuttall's woodpecker, 4; black phoebe, 85; Say's phoebe, 10; tree swallow, 2; Steller's jay, 2; Calif. jay, 143; crow, 550 (est.); mountain chickadee, 37; plain titmouse, 22; bush-tit, 358; white-breasted nuthatch, 18; wren-tit, 79; dipper, 3; house wren, 2; Bewick's wren, 26; long-billed marsh wren, 6; cañon wren, 2; rock wren, 4; mockingbird, 142; Calif. thrasher, 26; robin, 83; hermit thrush, 15; western bluebird, 34; Townsend's solitaire, 1; blue-gray gnatcatcher, 4; ruby-crowned kinglet, 76; Am. pipit, 310 (est.); cedar waxwing, 237; loggerhead shrike, 32; Hutton's vireo, 4; orange-crowned warbler, 5; myrtle warbler, 2; Audubon's warbler, 406 (partly est.); black-throated gray warbler, 1 (♂, black cheek, crown, and sides of throat with white in between all seen clearly through 8x binoculars at 50 ft.—Cogswell); yellow-throat, 88; Wilson's warbler, 1; English sparrow, 84; western meadowlark, 152; red-wing, 10; Brewer's blackbird, 412 (partly est.); cardinal, 33; purple finch, 15; Cassin's purple finch, 16; house finch, 621 (partly est.); Am. goldfinch, 87; green-backed goldfinch, 70; Lawrence's goldfinch, 13 (1 flock, in foothill chaparral—Dawson, Smith); spotted towhee, 35; brown towhee, 170; savannah sparrow, 61; grasshopper sparrow, 1 (short tail, unstreaked breast, dark crown with narrow center line noted—Tobin); lark sparrow, 69; slate-colored junco, 1 (♂, with flock of Oregons in residential area—Cogswell); Oregon junco, 102; chipping sparrow, 71; white-crowned sparrow, 163; golden-crowned sparrow, 29; fox sparrow, 25; Lincoln's sparrow, 2 (plus 7?); song sparrow, 75. **Total,** 109 species; 6382 individuals. Seen in count area during last 2 weeks of Dec. but missed on 28th: Am. bittern, 1; golden eagle, 2; Florida gallinule, 1; road-runner, 1; horned owl, 2; red-breasted sapsucker, 1; horned lark, 100; Bullock's oriole, 2 (wintering at San Jose Creek—Comby). (Note: names used refer to species as a whole and do not refer to any particular racial form.)—Arvord Belden, Constance and Genevieve Berry, Robert Braman, Wynona Clements, Howard L. Cogswell, Mr. and Mrs. J. H. Comby, Ruby Curry, William R. Dawson, Caroline H. Daugherty, M. W. deLaubenfels, Mary Duker, Donald L. Grable, Doris Lindsey, Emily McClean, Enid Michael, Mr. and Mrs. James Murdock, Ruth Price, W. D. Quattlebaum, Kate Rusterholz, S. Galen Smith, Honora Swanson, John Tobin, Millard Van Wagner, Mr. and Mrs. L. H. Young.

313. Salinas (Monterey Co.), Calif. (Salinas, out Reservation Road, across to Castroville, north to Moss Landing; approximately same area as in last 2 years within 15-mile diameter; scrub oak 35%, open country 20%, slough 35%, ocean beach 5%, home neighborhood 5%).—Dec. 29; 7:30 a.m. to 5 p.m. Clear; temp. 45° to 54°; wind NW, 2 m.p.h. Two observers together. Total hours, 16; total miles, 28 (10 on foot, 18 by car). Common loon, 5; red-throated loon, 2; Holboell's grebe, 12; horned grebe, 15; eared grebe, 10; western grebe, 26; pied-billed grebe, 4; white pelican, 38; brown pelican, 10; double-crested cormorant, 17; great blue heron, 5; Am. egret, 3; snowy egret, 10; black-crowned night heron, 7; whistling swan, 67; Hutchins's goose, 1; mallard, 8; gadwall, 2; pintail, 206; cinnamon teal, 12; shoveller, 17; redhead, 4; canvas-back, 93; lesser scaup, 25; white-winged scoter, 7; surf scoter, 8; ruddy duck, 53; red-breasted merganser, 12; turkey vulture, 1; white-tailed kite, 5; Cooper's hawk, 1 (plus 4 other probable Cooper's); red-tailed hawk, 2; red-bellied hawk, 1; marsh hawk, 3; sparrow hawk, 20; Calif. quail, 130; coot, 324; killdeer, 50; black-bellied plover, 320; Wilson's snipe, 12; long-billed curlew, 2; willet, 430; greater yellow-legs, 2; least sandpiper, 55; western sandpiper, 87; avocet, 209; glaucous-winged gull, 4; western gull, 25; Calif. gull, 115; Heermann's gull, 12; Forster's tern, 3; band-tailed pigeon, 30; road-runner, 1; barn owl, 1; Anna's hummingbird, 1; belted kingfisher, 2; red-shafted flicker, 26; Calif. woodpecker, 17; downy woodpecker, 2; black phoebe, 16; Say's phoebe, 5; Calif. jay, 5; yellow-billed magpie, 42; crow, 75; chestnut-backed chickadee, 20; plain titmouse, 6; bush-tit, 165; white-breasted nuthatch, 1; wren-tit, 3; house wren, 1; Bewick's wren, 4; mockingbird, 1 (a mockingbird visits neighborhood each year from about Thanksgiving through Jan.); Calif. thrasher, 3; robin, 15; hermit thrush, 3; western bluebird, 28; western gnatcatcher, 2; ruby-crowned kinglet, 4; loggerhead shrike, 14; orange-crowned warbler, 1; myrtle warbler, 3; Audubon's warbler, 16; Townsend's warbler, 21; yellow-throat, 2 (males); English sparrow, 17; western meadowlark, 406; red-wing, 620+; Brewer's blackbird, 58; cowbird, 10; house finch, 950+; common goldfinch, 20; green-backed goldfinch, 2; spotted towhee, 6; brown towhee, 24; savannah sparrow, 14; lark sparrow, 15; Oregon junco, 65; white-crowned sparrow, 250 (1 cream-colored bird in flock at Moss Landing; size and shape of a Nuttall's; stripes over head 2 shades of cream; wings and tail almost white; eyes black; feet flesh); golden-crowned sparrow, 45; fox sparrow, 8; song sparrow, 5. **Total,** 101 species; about 5547 individuals.—Charles Anderson, Viola Anderson.

314. San Diego, Calif. (San Diego to Sweetwater Reservoir).—Dec. 23; 7 a.m. to 5 p.m. Cloudy, with a few light sprinkles; light and variable wind; average temp. 63° F. Five observers in 2 parties. Total hours afield, 20; total

party miles, 82 (8 by motor boat, 65 by car, 9 on foot). Common loon, 7; Pacific loon, 4; pied-billed grebe, 6; horned grebe, 3; eared grebe, 25; western grebe, 30; black-vented shearwater, 3; Pacific fulmar, 2; brown pelican, 500 (est.); double-crested cormorant, 18; Brandt's cormorant, 3000 (est.); Baird's cormorant, 3; great blue heron, 12; Am. egret, 32; snowy egret, 17; black-crowned night heron, 38; black brant, 2000 (est.); mallard, 1; gadwall, 5; baldpate, 5000 (est.); pintail, 2000 (est.); green-winged teal, 512; shoveller, 351; canvas-back, 15; lesser scaup, 200; buffle-head, 29; surf-scoter, 55; ruddy duck, 15; red-breasted merganser, 2; white-tailed kite, 1; sharp-shinned hawk, 2; red-tailed hawk, 4; red-bellied hawk, 1; golden eagle, 1; marsh hawk, 7; sparrow hawk, 5; valley quail, 10; Calif. clapper rail, 9; Florida gallinule, 1; Am. coot, 620; snowy plover, 1; killdeer, 59; black-bellied plover, 300; surf-bird, 22; black turnstone, 2; long-billed curlew, 31; Hudsonian curlew, 5; spotted sandpiper, 1; willet, 252; greater yellow-legs, 14; least sandpiper, 1000 (est.); red-backed sandpiper, 6; long-billed dowitcher, 350; western sandpiper, 1150; marbled godwit, 1000 (est.); sanderling, 25; avocet, 107; glaucous-winged gull, 16; western gull, 2000 (est.); herring gull, 140; Calif. gull, 1200 (est.); ring-billed gull, 1400 (est.); Heermann's gull, 4; Forster's tern, 3; royal tern, 30; mourning dove, 88; barn owl, 1; burrowing owl, 3; short-eared owl, 1; Anna's hummingbird, 7; belted kingfisher, 2; red-shafted flicker, 9; Calif. woodpecker, 3; red-breasted sapsucker, 2; Nuttall's woodpecker, 2; Cassin's kingbird, 8; black phoebe, 12; Say's phoebe, 3; tree swallow, 70; Calif. jay, 5; bush-tit, 115; wren-tit, 9; cactus wren, 1; long-billed marsh wren, 7; cañon wren, 2; rock wren, 1; mockingbird, 9; hermit thrush, 3; mountain blue-bird, 5; western gnatcatcher, 2; ruby-crowned kinglet, 1; Am. pipit, 6; Calif. shrike, 8; Hutton's vireo, 2; dusky warbler, 3; Audubon's warbler, 73; yellow-throat, 1; English sparrow, 250; western meadowlark, 225; red-wing, 350; tricolored red-wing, 200; Brewer's blackbird, 850; dwarf cowbird, 100; house finch, 217; green-backed goldfinch, 7; spotted towhee, 4; brown towhee, 8; savannah sparrow, 17; Belding's sparrow, 158; large-billed sparrow, 112; vesper sparrow, 5; rufous-crowned sparrow, 2; Gambel's sparrow, 338; golden-crowned sparrow, 3; fox sparrow, 1; Lincoln's sparrow, 3; song sparrow, 7. **Total,** 117 species and subspecies; about 26,985 individuals.—Laurence M. Huey, Charles F. Harbison, Sam Hinton, Karl W. Kenyon, Henry Kritzler.

315. San Francisco, Calif. (Marina, Yacht Harbor, and Palace of Fine Arts Lagoon, Laurel Hill Cemetery, Lincoln Park, Lands End, Sutro Heights, Seal Rocks, Ocean Beach, Golden Gate Park, Pine Lake, Lake Merced, Fleishaker Zoo, Stern Grove, Mt. Davidson, Twin Peaks, Hunters Point, Bay Shore and McLaren Parks; ocean beach 8%, bay shore with salt marsh and mudflats 5%, parks 62%, fresh-water ponds and marsh 12%, open fields 7%, chaparral 6%).—Dec. 22. Clear to partly overcast at times; temp. 45° to 60°; wind variable, 0-4 m.p.h.. Twenty-one observers in 8 parties. Total party hours, 68 (65 on foot, 3 by car); total party miles, 61 (50 on foot, 11 by car). Red-throated loon, 2; horned grebe, 4; eared grebe, 412; western grebe, 102; pied-billed grebe, 49; white pelican, 20; brown pelican, 100; double-crested cormorant, 63; Brandt's cormorant, 44; great blue heron, 3; black-crowned night heron, 12; Am. egret, 2; Am. bittern, 1; mallard, 754; gadwall, 2; baldpate, 170; pintail, 12; green-winged teal, 1; red-head, 6; ring-necked duck, 82; canvas-back, 32; greater scaup, 85; lesser scaup, 90; Am. golden-eye, 3; surf scoter, 3; ruddy duck, 157; red-breasted merganser, 9; sharp-shinned hawk, 5; Cooper's hawk, 3; red-tailed hawk, 4; pigeon hawk, 1; sparrow hawk, 12; Calif. quail, 315; Virginia rail, 6; coot, 396; killdeer, 1; surf-bird, 2; ruddy turnstone, 41; black turnstone, 26; spotted sandpiper, 1; sanderling, 18; glaucous-winged gull, 569; western gull, 661; herring gull, 143; Calif. gull, 1733; ring-billed gull, 171; short-billed gull, 374; Bonaparte's gull, 55; burrowing owl, 1; Anna's hummingbird, 134; belted king-fisher, 6; red-shafted flicker, 58; downy wood-pecker, 5; black phoebe, 79; Say's phoebe, 1; Calif. jay, 5; Am. raven, 3; chestnut-backed chickadee, 135; bush-tit, 69; red-breasted nut-hatch, 8; wren-tit, 9; Bewick's wren, 16; marsh wren, 5; robin, 84; varied thrush, 4; hermit thrush, 47; golden-crowned kinglet, 70; ruby-crowned kinglet, 103; Am. pipit, 29; cedar waxwing, 81; loggerhead shrike, 2; Hutton's vireo, 4; black and white warbler, 1 [no details—Ed.]; orange-crowned warbler, 2; myrtle warbler, 11; Audubon's warbler, 141; Town-send's warbler, 32; yellow-throat, 31; English sparrow, 131; western meadowlark, 44; red-wing, 50+; tricolored red-wing, 200+; Brewer's blackbird, 2034+; cowbird, 45; Calif. purple finch, 4; house finch, 102; pine siskin, 91; green-backed goldfinch, 50; spotted towhee, 33; slate-colored junco, 1; Oregon junco, 191; savannah sparrow, 10; white-crowned sparrow, 1223; golden-crowned sparrow, 21; fox sparrow, 87; song sparrow, 121. **Total,** 96 species; about 12,369 individuals.—Mrs. H. C. Austin, S. Bosant, Junea Kelly, Hazel V. Leffler, Laura Stephens, E. C. St. Stowell, Jean B. Fay, Joan Kirk, J. Patricia McCarthy, Tillie A. Papina, Mary L. Roscoe, Philip Baukol, Gordon L. Bolander, Donald S. Brock, Charles A. Bryant, Brighton C. Cain, Jack Heyneman, Herman V. Leffler, Arthur H. Myer, John H. Roush, Gerald E. Sedgewick (members Audubon Association of the Pacific).

316. San Jose, Calif. (nearly same area as in 1945: north to Alviso and east to Alum Rock Park; salt-water marshes and sloughs 42%, pear orchard near marshes 8%, foothill canyon 37%, city suburbs and orchards 13%).—Dec. 29; 9 a.m. to 3:30 p.m. Alternately cloudy, with some rain, and sunny; prevailing wind S, 5-13 m.p.h.; temp. 35° to 52° F. Twenty-one observers in 3 parties. Total hours, 12 (on foot); total miles, about 9 (on foot). Eared grebe, 46; pied-billed grebe, 6; great blue heron, 4; Am. egret, 4; mallard, 6; pintail, 560; shoveller, 56; canvas-back, 55; ruddy duck, 22; Am. merganser, 5; red-tailed hawk, 4; marsh hawk, 4; sparrow hawk, 7; Calif. quail, 3; clapper rail, 1; coot, 840; killdeer, 7; willet, 360; greater yellow-legs, 8; least sandpiper, 140; dowitcher, 240; western sandpiper, 180; marbled godwit, 1; avocet, 320; western gull, 40; Calif. gull, 22; Bonaparte's gull, 73; short-eared owl, 1; Anna's hummingbird, 5; red-shafted flicker, 25; Calif. woodpecker, 23; red-breasted sapsucker, 2; hairy woodpecker, 1; Nuttall's woodpecker, 6; black phoebe, 4; barn swallow, 10 (deeply forked tail clearly seen —M.F.V.) [no further details—Ed.]; Steller's jay, 15; Calif. jay, 23; yellow-billed magpie, 2; chestnut-backed chickadee, 33; plain titmouse, 8; bush-tit, 106; white-breasted nuthatch, 2; wren-tit, 12; dipper, 2; Bewick's wren, 2; cañon wren, 4; mockingbird, 2; Calif. thrasher, 4; robin, 31; varied thrush, 5; hermit thrush, 7; western bluebird, 7; ruby-crowned kinglet, 18; Am. pipit, 15; loggerhead shrike, 5; Hutton's vireo, 3; Audubon's warbler, 6; English sparrow, 17; western meadowlark, 53; red-wing, 6; Brewer's blackbird, 412; purple finch, 13; house finch, 44; willow goldfinch, 12; green-backed goldfinch, 65; spotted towhee, 4; brown towhee, 22; savannah sparrow, 36; lark sparrow, 30; rufous-crowned sparrow, 4; Oregon junco, 114; white-crowned sparrow, 166; golden-crowned sparrow, 62; song sparrow, 17. **Total,** 75 species; about 4480 individuals. (Seen in A. R. Park Dec. 27: golden eagle, 3; white-throated swift, 2.)—Grace Brubaker, B. N. Dickinson, Florence Durfee, Ruth Faulkner, Grace Ganley, Pearl Harwood, J. Heath, Eva McRae, June Miller, Anne Peterson, J. G. Peterson, Sharon and Jean Peterson, Mr. and Mrs. C. Prusman, Emily Smith, Etta W. Smith, M. F. Vessel, Florence Wood, Mr. and Mrs. C. J. Zwaal (Santa Clara Valley Audubon Society).

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